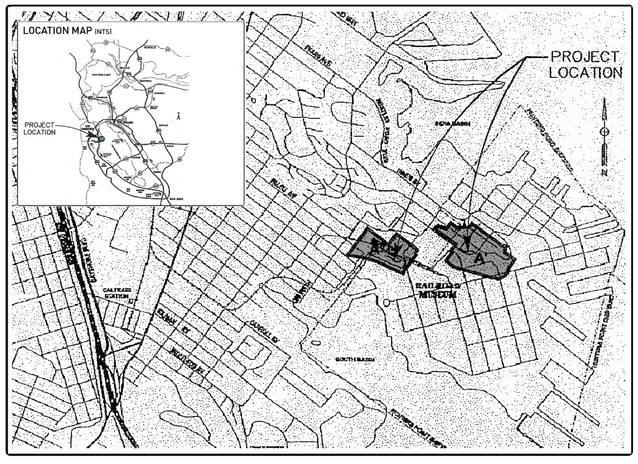
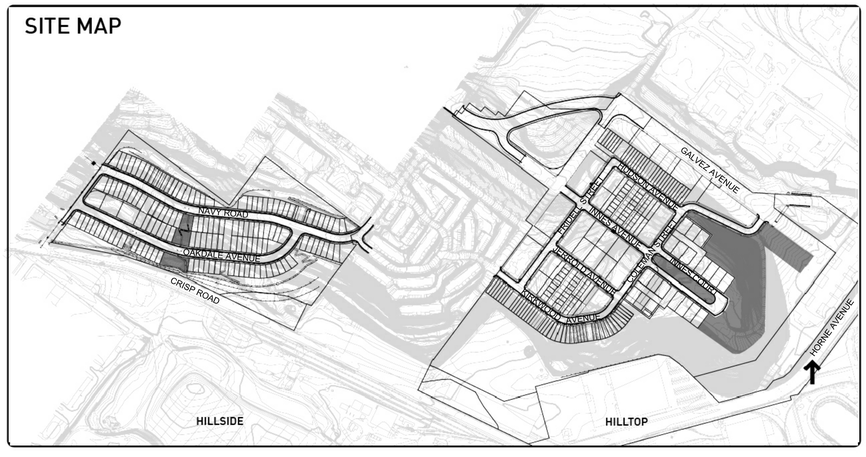




SITE MAP



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STRUCTURAL DESIGN ENGINEERS
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CONTACT: RAJENDRA SAHAI

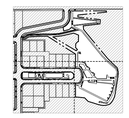
IRRIGATION DESIGN:
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SHEET INDEX

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L2.10	PAVING LAYOUT PLAN – COLEMAN BLUFF
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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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△		
△		
△		
△		
△		

Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
Cover Sheet

Sheet No:
L0.00

GENERAL NOTES

1. FOR INFORMATION ON MASS GRADING, UTILITY CONNECTIONS, STREET INFRASTRUCTURE AND ELECTRICAL SERVICE, SEE REFERENCED DRAWINGS:
   A. HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT–PARCEL A GRADING AND RETAINING WALLS.
   B. HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT –PARCEL A INFRASTRUCTURE.

2. FOR UTILITIES & DRAINAGE, SEE CIVIL SHEETS C1.00–C5.00.

3. ALL PROPERTY, EASEMENT, LIMIT, AND UTILITY LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.

4. WRITTEN SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTATION PACKAGE. CONTRACTOR IS RESPONSIBLE FOR WRITTEN SPECIFICATIONS AND DRAWING PACKAGE.

5. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY COSTS, CONSTRUCTION DELAYS, OR REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.

6. ALL WORK SHALL CONFORM TO APPLICABLE LOCAL CODES AND ORDINANCES.

7. CONTRACTOR SHALL PERFORM ALL PROTECTION, DEMOLITION, REMOVAL AND SITE PREPARATION NECESSARY FOR THE PROPER EXECUTION OF ALL WORK SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

8. FOR ELECTRICAL, SEE ELECTRICAL ENGINEER'S SHEETS E1.00–E5.00.

9. CONTRACTOR SHALL REMOVE FROM THE SITE ALL DEBRIS AND UNSUITABLE MATERIAL GENERATED BY THE CONTRACTOR'S OPERATIONS. CONSTRUCTION SITE SHALL BE MAINTAINED AT ALL TIMES SO THAT NO OBSTRUCTION, CONSTRUCTION EQUIPMENT OR CONSTRUCTION PROCESS CAUSES POTENTIAL HARM OR DANGER TO THE PUBLIC OR THE CONSTRUCTION SITE.

10. CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH OWNER'S REPRESENTATIVE, SITE SUPERINTENDENT, APPROPRIATE AGENCIES AND CONSTRUCTION DOCUMENTATION OF THE LOCATIONS OF ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF UTILITIES

11. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH ALL DRAIN LINES, IRRIGATION SUPPLY LINES, CONDUIT SLEEVES, AND POWER AND WATER SERVICE POINTS SHALL BE IN PLACE IN LOCATIONS SHOWN ON LAYOUT PLANS PRIOR TO INSTALLATION OF SITE LANDSCAPE CONSTRUCTION.

13. ALL TESTING ASSOCIATED WITH LANDSCAPE OPERATIONS ARE INCLUDED IN SCOPE OF WORK. THESE INCLUDE SOIL TESTING FOR HORTICULTURAL SUITABILITY AND IF DEEMED NECESSARY SITE LANDSCAPE CONCRETE WALLS AND STAIRS. ALL COSTS ASSOCIATED FOR ALL TESTS ARE COVERED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

14. ALL SUBGRADES UNDER PAVEMENTS & LANDSCAPE FOUNDATIONS SHALL BE COMPACTED IN ACCORDANCE TO RELATIVE COMPACTION AND DEPTHS SPECIFIED IN GEO–TECHNICAL REPORT, UNLESS OTHERWISE NOTED.

15. COORDINATE WALL CONSTRUCTION WORK WITH OTHER CONTRACTORS, I.E. WATERPROOFING, ELECTRICAL, MECHANICAL AND IRRIGATION CONTRACTOR FOR INSTALLATION OF WATERPROOFING, SLEEVES, CONDUIT, ANCHOR BOLTS, ETC.

16. ALL DRAINAGE FACILITIES WITHIN THE PARK ARE NOT MAINTAINED BY THE SFPUC EXCEPT THE PIPELINE AND ASSOCIATED DRAINAGE STRUCTURES LOCATED WITHIN THE EASEMENT FOR PUC FROM THE INNES COURT OVERFLOW TO COLEMAN STREET.

17. REMOVE 12" DRAIN PIPE FROM HILLPOINT PARK AREA FROM (E) EARTHEN STORMWATER RENTENTION BASIN DOWN TO HORN AVENUE BELOW. SEE SHEET L3.00.

CONDITIONS OF APPROVAL

1. THE CONTRACTOR MUST COORDINATE ART WORK INSTALLATION ON THE CONCRETE WALLS (W2A, W2B) WITH OCII AS A CONDITION OF APPROVAL FOR THE PERMIT.

2. THE CONTRACTOR MUST SUBMIT SPECIFICATIONS AND SHOP DRAWINGS FOR THE CUSTOM PICNIC TABLES TO OCII FOR REVIEW AND APPROVAL AS A CONDITION OF APPROVAL FOR THE PERMIT.

PLANTING NOTES

1. ALL LANDSCAPE AND MAINTENANCE OF PLANTING SHALL CONFORM WITH ALL APPLICABLE CODES, ORDINANCES, AND LAWS.

2. VERIFY ALL SITE CONDITIONS AND UTILITY LOCATIONS PRIOR TO COMMENCING LANDSCAPE PLANTING WORK.

3. WHERE IN–THE–FIELD CONFLICTS ARISE BETWEEN PLANT AND UTILITY LOCATIONS, THE CONTRACTOR SHALL, WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT, MAKE THE NECESSARY ADJUSTMENTS TO PLANT PLACEMENT IN ORDER TO ACHIEVE OPTIMUM DESIGN INTENT.

4. TAKE CARE TO PROTECT EXISTING PLANTS TO REMAIN. AVOID UNNECESSARY ROOT DISTURBANCE, COMPACTION OF SOILS WITHIN DRIP LINE, OR LIMB BREAKAGE. DO NOT STORE MATERIAL OR DISPOSE OF ANY MATERIAL OTHER THAN CLEAN WATER WITHIN DRIP LINE. PROVIDE ADEQUATE IRRIGATION DURING CONSTRUCTION. REPLACE ANY TREE OR SHRUB DAMAGED DURING CONSTRUCTION WITH PLANTS OF EQUAL SIZE AND VALUE AT NO ADDITIONAL COST TO OWNER.

5. SEE SPECIFICATIONS AND DETAILS FOR SOIL AMENDMENTS, PLANTING AND MAINTENANCE INSTRUCTIONS.

6. ALL PLANTS TO BE NURSERY GROWN, OF THE FINEST QUALITY AND FREE OF DISEASE OR DAMAGE.

7. ALL PLANT MATERIAL SHALL BE INSPECTED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

8. PLANT AREA AND OVERALL QUANTITY FOR EACH PLANT TYPE ARE SHOWN ON THE PLANTING SCHEDULE FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO CONFIRM QUANTITIES. ALL AREAS ARE TO BE DENSELY PLANTED, PER SPACING IN SCHEDULE.

9. CONTRACTOR TO CALCULATE AND VERIFY PLANT QUANTITIES WITH OWNER'S AUTHORIZED REPRESENTATIVE.

10. ALL LANDSCAPE TREATMENTS ADJACENT TO PAVEMENT SHALL BE FLUSH WITH FINISH PAVEMENT, EXCEPT IN LAWN AREAS WHERE FINISH GRADE SHALL BE 1/2" BELOW ADJACENT FINISH SURFACE.

11. GRADES SHALL BE APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION OF PLANT MATERIALS.

12. DIMENSIONS FOR PLACEMENT AND LAYOUT OF PLANT MATERIALS SHOWN ON DRAWINGS ARE APPROXIMATE. LAYOUT OF PLANT MATERIALS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE INSTALLATION OF PLANT MATERIALS IN CONFORMANCE WITH SPECIFICATIONS.

13. NO PLANTING SHALL BE DONE UNTIL THE IRRIGATION SYSTEM IS COMPLETED AND FULLY OPERATIONAL.

14. SEE TREE PROTECTION PLAN FOR LOCATION OF TREES TO BE PROTECTED.

15. PENDING RESULTS OF DRAINAGE TESTS AT PLANTING PITS, NEW TREES MAY REQUIRE UNDERDRAINAGE. COORDINATE INSTALLATION WITH RELATED TRADES.

LAYOUT

1. REFER TO CIVIL DRAWINGS FOR CURBS, CURB RAMPS, VEHICULAR PAVEMENTS, STREET LIGHTING AND UTILITIES.

2. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND CONDITIONS PRIOR TO COMMENCING WORK AND SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.

4. WHERE "VERIFY" OR "FIELD VERIFY" IS USED IN CONJUNCTION WITH A DIMENSION, THE CONTRACTOR SHALL VERIFY THE MEASUREMENT PRIOR TO BEGINNING THE WORK. IMMEDIATELY BRING DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.

5. POINT OF BEGINNING FOR LAYOUT DIMENSIONS ARE NOTED.

6. SCORING SHOWN ON DRAWINGS SHOW DESIGN INTENT. FIELD VERIFICATION OF LAYOUT SHALL BE REVIEWED AND APPROVED BY OWNER'S REPRESENTATIVE.

7. ALL CURVES SHALL BE PER DRAWINGS AND SHALL BE SMOOTH AND CONTINUOUS WITH NO ABRUPT CHANGES IN DIRECTION.

8. SLOPE ALL PAVING 1% MINIMUM UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AND ENSURE THAT NO PONDING OF WATER OCCURS.

9. LAYOUT OF LIGHT FIXTURES ON ELECTRICAL DRAWINGS IS DIAGRAMMATIC. SEE LIGHT LAYOUT PLAN, L2.05, FOR LOCATION AND LAYOUT OF LIGHTING FIXTURES.

10. LAYOUT OF LIGHTING PULLBOXES ON ELECTRICAL DRAWINGS IS DIAGRAMMATIC. ALIGN ROTATION OF PULLBOX WITH EDGE OF PAVING.

GRADING

1. PROVIDE ALL GRADES FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. ACCURATELY SET FLOW LINE GRADES AT 2 PERCENT MINIMUM GRADIENT UNLESS OTHERWISE NOTED IN DRAWINGS.

2. FINISH GRADES SHALL BE SMOOTH, EVEN AND ON A UNIFORM PLANE WITH NO ABRUPT CHANGES OF SURFACE. SLOPE UNIFORMLY BETWEEN GIVEN SPOT ELEVATIONS.

3 GRADES NOT OTHERWISE INDICATED SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN, OR BETWEEN POINTS ESTABLISHED BY WALKS, PAVING, CURBS OR AREA DRAINS.

4. 3:1 AND 2:1 CONTOURED SLOPES SHALL BE EVEN UNIFORM PLANES PER THE DRAWINGS.

5. TOPS AND TOES OF ALL SLOPES SHALL BE GRADED TO A SHARP AND EVEN TRANSITION BETWEEN RELATIVELY LEVEL AREAS AND SLOPES UNLESS OTHERWISE NOTED IN THE DRAWINGS.

HUNTERS POINT SHIPYARD OPEN SPACE
EIR MITIGATION MEASURES

Applicable EIR Mitigation Measures	Compliance During Construction
EIR: 2.B Construction PM_{10} BAAQMD officials consider PM10 emissions from construction sites to be potentially significant. As conditions of construction contracts, contractors will be required to implement BAAQMD guidelines for controlling particulate emissions at construction sites. BAAQMD guidelines are summarized below: - Seed and water all unpaved, inactive portions of the lot or lots under construction to maintain a grass cover if they are to remain inactive for long periods during building construction. - Halt all clearing, grading, earthmoving, and excavating activities during periods of sustained strong winds (hourly average wind speeds of 25 mph [40 km per hour] or greater). - Water or treat all unpaved active portions of the construction site with dust control solutions, twice daily, to minimize windblown dust and dust generated by vehicle traffic. (City Ordinance 175-95 requires that nonpotable water be used for this purpose.) - Sweep paved portions of the construction site daily or as necessary to control windblown dust and dust generated by vehicle traffic. Sweep streets adjacent to the construction site as necessary t o remove accumulated dust and soil. - Cover trucks carrying loose soil or sand before they leave the construction site, and limit on-site vehicle speeds to 15 mph (24 km per hour) or lower in unpaved construction areas. - Limit the area subject to excavation, grading or other construction activity at any one time. Cover on-site storage piles of loose soil or sand.	**Mitigation Plan:** A dust control plan including all requirements is included in the contract specifications. Dust Control Plan and SWPPP will be provided to BCM with copies for distribution to DPH and PUC, before starting site work. **DUST CONTROL MEASURES** **DCM.1 Dust control measures shall be implemented under the requirements provided in Section 01500E "Dust Control Plan" and Section 01500H "Asbestos Dust Management Plan" of the contract specifications.** **DCM.2 A violation of the above-referenced Dust Control requirements may result in a fine from CCSF of up $1000 per occurrence/day.**
EIR: 7.E Construction Contingency Plan for Unanticipated Hazardous Materials Inform contractors that unknown hazardous materials could be encountered during demolition or excavation, and instruct them regarding steps to be taken if this occurs. These steps include the following: - The contractor shall immediately stop work in the area and notify the San Francisco Department of Pubic Health (DPH) verbally and in writing. - The contractor shall immediately secure the area to prevent accidental access by construction workers or the public. - The identified material shall be sampled as directed by DPH. - Handling and disposal of identified mater ials shall be in accordance with DPH direction and in compliance with applicable laws and regulations. - Work on site may resume only where and when permitted by DPH.	**Mitigation Plan:** Contractor to implement during construction. Contingency actions for unanticipated hazardous materials are included in contract specifications.
EIR: 7.F Controls on Ecological Exposure to Hazardous Materials During Construction For surface water impacts, follow all conditions of the state of California storm water construction permit, including implementing BMPs to reduce storm water runoff from the site. For groundwater discharge impacts, follow all permit requirements for discharge into the storm water system or sanitary sewer system. Treat water as appropriate to comply with discharge levels as required by the permit. Assess potential effects on groundwater gradients within construction areas if dewatering is proposed or if new utility lines are proposed that could act as conduits for contaminants in groundwater. Conduct cewatering activities and design utility installations such that contamination does not spread to the Bay or other ecologically sensitive areas. New storm drains shall have watertight joints, such as rubber gaskets. Methods to be considered could include installing sheet piling, groundwater pumping/recharge, and installing utility lines in impermeable bedding material. For boring and pile driving activities along the Bay, drive the piles directly into the sediments without boring where possible, to minimize and localize sediment disruption. Where pile driving without drilling is not possible due to shallow bedrock, crive a casing to the solid material, preventing collapse of the material and allowing drilling to occur within the casing without excessive sediment disruption. Then place the pile in the casing and backfill with concrete. Perform dredging activities in a manner consistent with institutional controls established via the CERCLA process. Require consultation with agencies represented in the Army Corps of Engineers Interagency Dredged Material Management Office regarding appropriate methods for limiting disturbance of sediment, containing suspended sediment to the immediate area being dredged, and additional measures to be protective of human health and the environment as described in Section 3.7.5 (under Dredging).	**Mitigation Plan:** Storm Water and Erosion Control Plan and Dust Control Plan shall be implemented during construction and are included in contract specifications.
EIR: 8.A Handling Naturally Occurring Asbestos During Construction Follow BAAQMD, U.S. EPA, and federal and CAL OSHA regulations for construction and demolition activities. Continuously wet serpentinite involved in excavation or drilling operations. Wet and cover stockpiled serpentinite. Do not use serpentinite as road, surfacing, or paving material. Cap serpentinite used as fill material with at least one foot (0.3 m) of clean non-serpentinite fill material, and implement institutional controls to prevent future exposure from excavation activities. Treat excavated waste materials containing greater than one percent asbestos by weight as hazardous waste, and transport and dispose of this material in accordance with applicable Federal and state regulations.	**Mitigation Plan:** Storm water quality issues are addressed in the Infratsructure plan including Best Management Practices (BMP), Storm Water Pollution Prevention Program (SWPPP), and CDS treatment units. Provide SWPPP to BCM, and copies for distribution to PUC, before starting of work.
EIR: 9.B Storm Water Discharge Quality To ensure that the quality of storm water discharges improves as anticipated, implement the following measures: - Develop and implement a SWPPP for HPS that is applicable to new cevelopment under the Redevelopment Plan to control the quality of direct discharges of stormwater to near-shore waters. The SWPPP will include provisions for controlling soil migration off site (e.g., silt fences, settling units) during periods of runoff and for monitoring possible sources of industrial contaminants. Develop the program in coordination with the San Francisco Public Utility Commission staff and according to guidelines contained in the California Municipal Storm Water Best Management Practice Handbook, the California Industrial/Commercial Storm Water Best Management Practice Handbook and U.S. EPA's proposed Phase II stormwater regulations. - As part of the SWPPP, implement BMPs such as public education and outreach, pollution prevention, and good housekeeping - Construct stormwater retention and treatment areas on site to improve the quality of discharges to the Bay. Specify in the SWPPP the locations of appropriate areas for stormwater infiltration that avoid toxic hot spot areas and capped areas and identify drainage patterns to direct stormwater to appropriate infiltration locations.	
EIR: 12.D Archaeological Resources Require contractors to be made aware of the potentials for discovery of archaeological resources. If development in the four subsurface zones identified as having the potential for containing significant archaeological deposits involves construction or installation below the level of fill, retain a professional archaeologist to develop a project-specific treatment or monitoring program. If archaeological resouces are discovered during construction, suspend all work in the immediate vicinity. Avoid altering the materials and their context pending site investigation by a qualified professional archaeologist. If the quaified professional archaeologist cetermines that the discovery is significant, notify the SHPO and ensure that an appropriate treatment plan is developed and implemented.	**Mitigation Plan:** Contractor to implement during construction. Protection measures for archaeological resources are included in the contract specifications.

GENERAL ABBREVIATIONS

ABUT	ABUTMENT
AB	AGGREGATE BASE
ABS	ACRYLONITRILE BUTADIENE STYRENE
AC	ASPHALT CONCRETE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
APPROX	APPROXIMATE
BC	BEGIN CURVE/ BOTTOM OF CURB
BDRY	BOUNDARY
BEG	BEGIN
BF	BOTTOM FACE
BLDG	BUILDING
BM	BENCH MARK
BVC	BEGIN VERTICAL CURVE
BSW	BACK OF SIDEWALK
BOW	BACK OF WALK
BS	BOTTOM OF STAIR
BW	BOTTOM OF WALL
C	CONDUIT
CALC	CALCULATED
CATV	CABLE TELEVISION
CL	CENTER LINE
CB	CATCH BASIN
CCM	CELLULAR CONCRETE MAT
CI	CAST IRON
CIDH	CAST–IN–DRILLED HOLE
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CHAIN LINK
CLR	CLEAR
CO	CLEANOUT
CONC	CONCRETE
CONT	CONTINUOUS
COTG	CLEAN OUT TO GRADE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CSP	CORRUGATED STEEL PIPE
CU FT	CUBIC FEET
DB	DRAIN BASIN
DBL	DOUBLE
DF	DRAINAGE FOUNTAIN
DI	DRAINAGE INLET
DIA	DIAMETER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
D/S	DOWN STREAM
DWG	DRAWING
(E)/EX	EXISTING
E	EAST
EA	EACH
EC	END OF CURVE
EF	EACH FACE
ELEV/EL	ELEVATION
ELECT	ELECTRICAL
EQ	EQUAL
EVC	END OF VERTICAL CURVE
EW	EACH WAY
EXP	EXPANSION
EXP/EJ	EXPANSION JOINT
FF	FAR FACE
FFE	FINISHED FLOOR ELEVATION
FG	FINISH GRADE (AT PLANTING)
FS	FINISH SURFACE (AT PAVING)
FH	FIRE HYDRANT
FL	FLOW LINE
G	GAS
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GM	GAS METER
GND	GROUND
H	HEIGHT OR HORIZONTAL
HB	HOSE BIB
HORIZ	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HW	HEADWALL
ID	INLINE DRAIN
INV	INVERT
INV EL/IE	INVERT ELEVATION
JT	JOINT
L	LENGTH
LF	LINEAR FEET
LT	LEFT
LOL	LAYOUT LINE
LOW	LIMIT OF WORK
MH	MANHOLE
MAINT	MAINTENANCE
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MAYOR'S OFFICE ON DISABILITY
MON	MONUMENT
(N)	NEW
N	NORTH
NF	NEAR FACE
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NO/#	NUMBER
NOS	NUMBERS
NTS	NOT TO SCALE
O/C OR OC	ON CENTER
OF	OUT FALL
OH	OVERHEAD
OL	OVERLOOK
PCC	POINT OF COMPOUND CURVATURE OR PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
POB	POINT OF BEGINNING
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTDF	PRESSURE–TREATED DOUG FIR
PVI	POINT OF VERTICAL INTERSECTION
PERM	PERMANENT
PERF	PERFORATED
PVC	POLYVINYL CHLORIDE PIPE
QC	QUICK COUPLER
RAD/R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RE	RIM ELEVATION
REINF	REINFORCING
RP	REC. AND PARK DEPARTMENT
R.R.	RAILROAD
RSC	RIGID STEEL CONDUIT
RT	RIGHT
R/W OR ROW	RIGHT–OF–WAY
RWLOL	RETAINING WALL LAYOUT LINE
S	SLOPE OR SOUTH
SCD	SEE CIVIL DRAWINGS
SCH	SCHEDULE
SCSP	SACKED CONCRETE SLOPE PROTECTION
SD	STORM DRAIN OR SIDE DRAIN
SDMH	STORM DRAIN MANHOLE
SED	SEE ELECTRICAL DRAWINGS
SHT.	SHEET
SID	SEE IRRIGATION DRAWINGS
SIM	SIMILAR
SOG	SLAB ON GRADE
SP	SPACE OR SPACING
SQ	SQUARE
SS	SANITARY SEWER OR STAINLESS STEEL
SSD	SEE STRUCTURAL DRAWINGS
SSMH	SANITARY SEWER MANHOLE
STA	STATION POINT
STD	STANDARD
STL	STEEL
S/W	SIDEWALK
SSCO	SANITARY SEWER CLEANOUT
T	TANGENT OR TELEPHONE
TBD	TO BE DETERMINED
TC	TOP OF CURB
TF	TOP FACE
TEMP	TEMPORARY
TOF	TOP OF FOOTING
TOR	TOP OF RAMP
TOS	TOP OF SLAB
TOT	TOTAL
TOW/TW	TOP OF WALL
TS	TOP OF STAIR
TYP	TYPICAL
TP	TELEPHONE POLE
UNO	UNLESS NOTED OTHERWISE
V/VERT	VERTICAL
VB	VALVE BOX
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
W	WEST OR WATER
W/	WITH
W/O	WITHOUT
WC	WHEELCHAIR ACCESSIBLE
WM	WATER METER
WMH	WATER MANHOLE
WP	WORK POINT
WPJ	WEAKENED PLANE JOINT
WWLOL	WINGWALL LAYOUT LINE

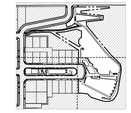
GENERAL LEGEND

SYMBOL	DESCRIPTION
L.O.W.	LIMIT OF WORK
	MATCH LINE
	PROPERTY LINE
A	AREA NOTE
P2	PAVING MATERIAL DESIGNATION
1	SITE ELEMENT
1 / L 2.0	SITE SECTION OR ELEVATION
1 / L 2.0	DETAIL
L 1 / L 2.0	DETAIL SECTION
1 / L 2.0	DETAIL ENLARGEMENT
1 1/2"	ARC LENGTH DIMENSION

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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/15
Renewal Date
OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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2	100% DESIGN DEVELOPMENT	1.16.09
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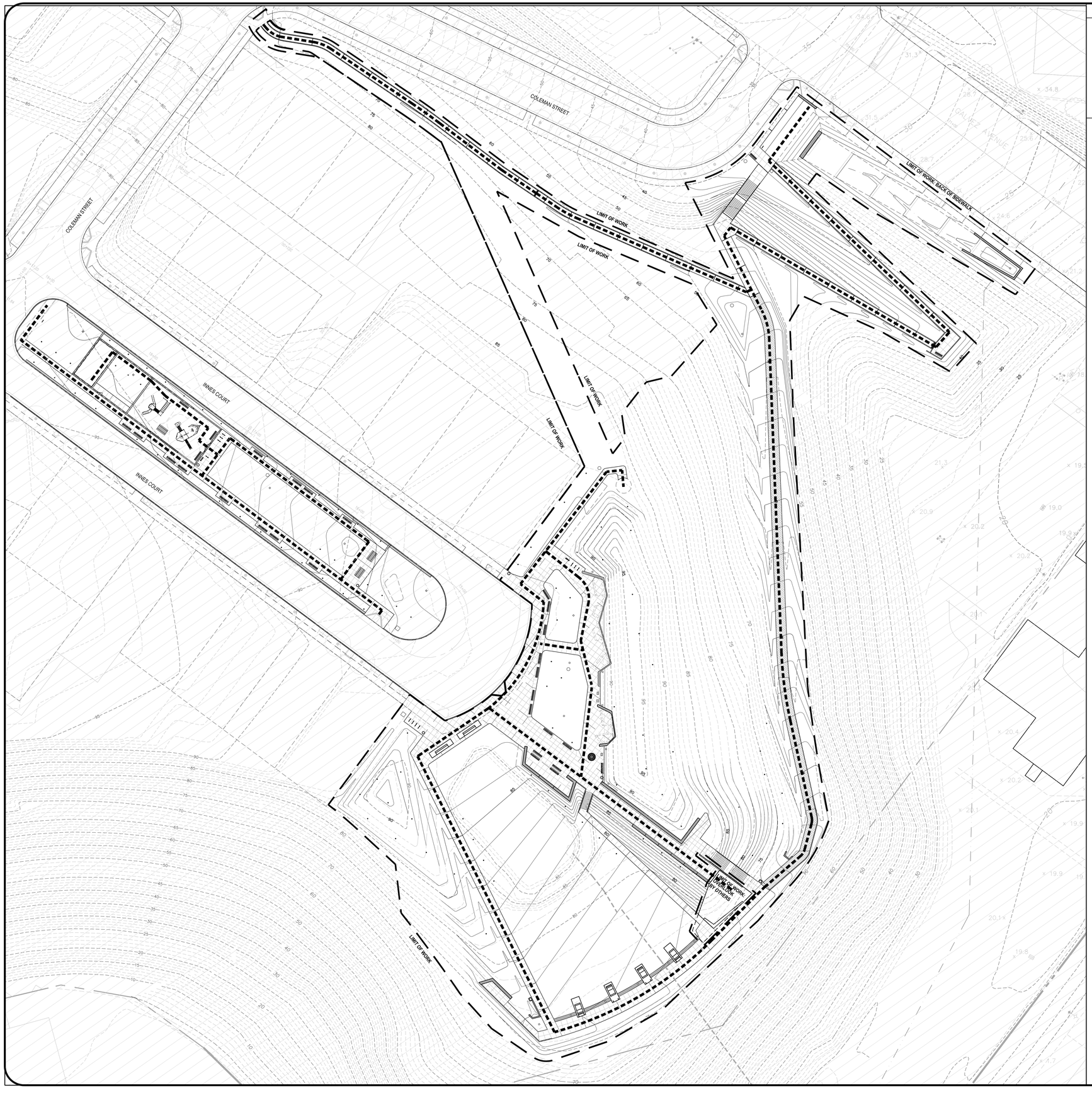
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Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
Notes, Legend, & Abbreviations

Sheet No:
L0.01



ACCESSIBILITY LEGEND

▪▪▪▪▪▪▪▪ ACCESSIBLE PATH OF TRAVEL

ACCESSIBILITY NOTES

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH CALIFORNIA BUILDING CODE 2010, CITY AND COUNTY OF SAN FRANCISCO BUILDING CODE, AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES [ADAAG]

2. ALL PATHS AND PAVED AREAS WITHIN THE PARKS SHALL NOT EXCEED ACCESSIBLE SLOPES, SEE GRADING DRAWINGS

3. ACCESSIBLE CURB RAMPS AT PARK ENTRANCES SHALL BE CONSTRUCTED PER 'HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT PARCEL A' – "INFRASTRUCTURE" DRAWINGS'

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Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=30'-0"
0' 15' 30' 60'
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Sheet Title:

ACCESS PLAN
PATH OF TRAVEL

Sheet No:

L0.02



TREE PROTECTION

EXTENT OF TREE PROTECTION ZONE (TPZ)

111 — EXISTING TREES TO REMAIN AND TO BE PROTECTED; SEE SHEET L4.03 FOR ADDITIONAL INFORMATION ABOUT EXISTING TREES

TREE PROTECTION NOTES

1. TREE PROTECTION ZONE: AREA SURROUNDING INDIVIDUAL TREES OR GROUPS OF TREES TO REMAIN DURING CONSTRUCTION, AND DEFINED BY THE DRIP LINE OF INDIVIDUAL TREES OR THE PERIMETER DRIP LINE OF GROUPS OF TREES, UNLESS OTHERWISE INDICATED.

2. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREES TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.

3. FENCE POSTS SHALL BE STANDARD STEEL POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.

4. THE FENCE SHALL BE CHAINLINK, 40" MINIMUM.

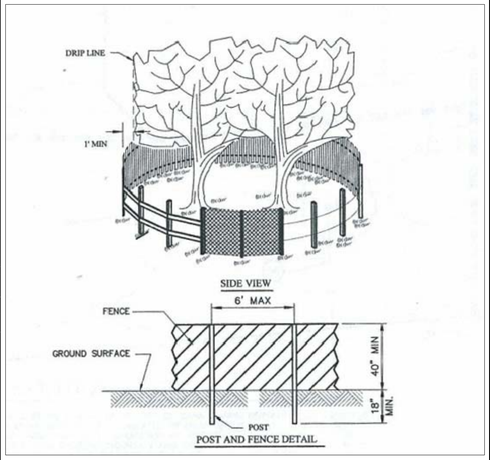
5. ALL WORK WITHIN CANOPY DRIPLINE SHALL BE HAND LABOR.

6. SEE SHEET L4.03 AND L4.04 FOR PROPOSED WORK IN TREE PROTECTION ZONE.

7. FINAL LAYOUT OF FENCE TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT.

8. LOCATION OF THE EXISTING TREES IS APPROXIMATE. PLAN IS PROVIDED FOR INFORMATION AND COORDINATION ONLY. EXISTING TREES SURVEYED BY HORT SCIENCE. SEE REPORT DATED 2004.

9. TREE NUMBERING IS BASED ON HORT SCIENCE REPORT DATED 2004. MISSING TREE NUMBERS INDICATED TREES WHICH WERE REMOVED DURING 2007 MASS GRADING OPERATIONS.



POST AND FENCE DETAIL

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Date
STATE OF CALIFORNIA

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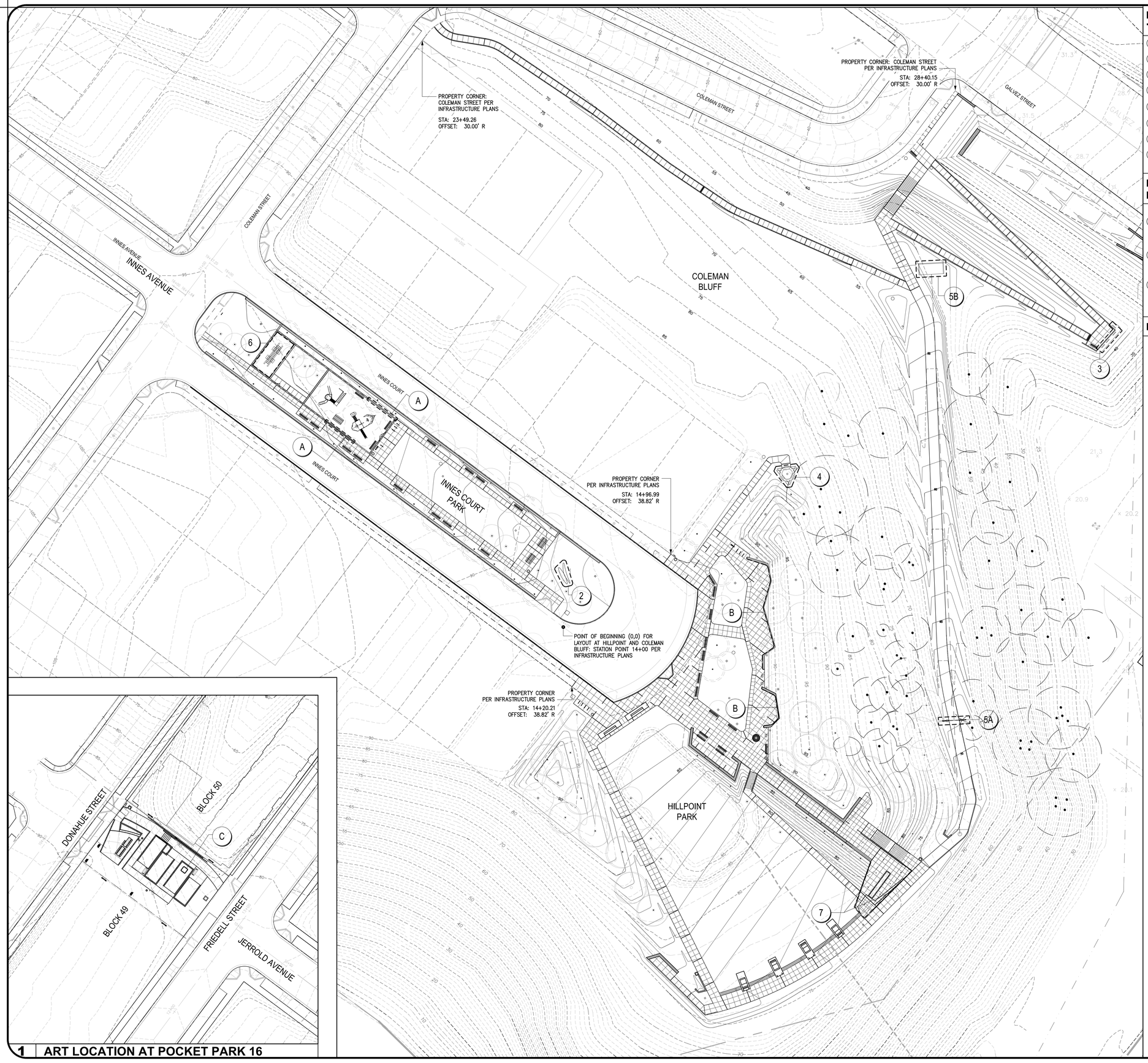
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Sheet Title:

Tree Protection Plan

Sheet No:

L0.03



PUBLIC ART PIECE INSTALLATION - TO BE INCLUDED

1. NOT USED
2. JESSICA BODNER – HALE KONON
3. MARION COLEMAN – VISIONS OF THE PAST
4. MATTHEW GELLER – NAUTICAL SWING
5A. MILDRED HOWARD/WALTER HOOD – FRAME REFRAIN
5B. MILDRED HOWARD/WALTER HOOD – FRAME REFRAIN
6. REBARGROUP – GIGANTRY
7. ERIC POWELL – FLOTILLA (GUARDRAIL)

PUBLIC ART PIECE INSTALLATION - NOT INCLUDED

A. CHILDREN'S TILES AT INNES COURT PARK AND AT HILLSIDE CENTRAL PARK.
SEE L1.00 MATERIAL SCHEDULE WALL W7.

B. "STREAM OF CONSCIOUSNESS"
SEE L1.00 MATERIAL SCHEDULE WALLS W2A AND W2B.

C. JASON WEBSTER – BUTTERFLY GIRL

NOTES

1. PUBLIC ART LOCATION PLAN INCLUDED FOR COORDINATION PURPOSES AND INFORMATION.

2. INSTALLATION OF PUBLIC ART PIECES 1 – 8 IS NOT INCLUDED IN THE CONTRACT FOR THE CONSTRUCTION OF HILLPOINT PARK, INNES COURT PARK OR COLEMAN BLUFF PATH. PUBLIC ART PIECES 1 – 8 WILL BE INSTALLED BY OTHERS.

3. INSTALLATION OF PUBLIC ART PIECES A AND B IS INCLUDED IN THE CONTRACT FOR THE CONSTRUCTION OF HILLPOINT PARK, INNES COURT PARK OR COLEMAN BLUFF PATH.

4. COORDINATION BETWEEN ALL PARTIES INVOLVED IS REQUIRED TO DETERMINE THE SEQUENCE FOR THE INSTALLATION OF EACH ART PIECE.

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Signature
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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
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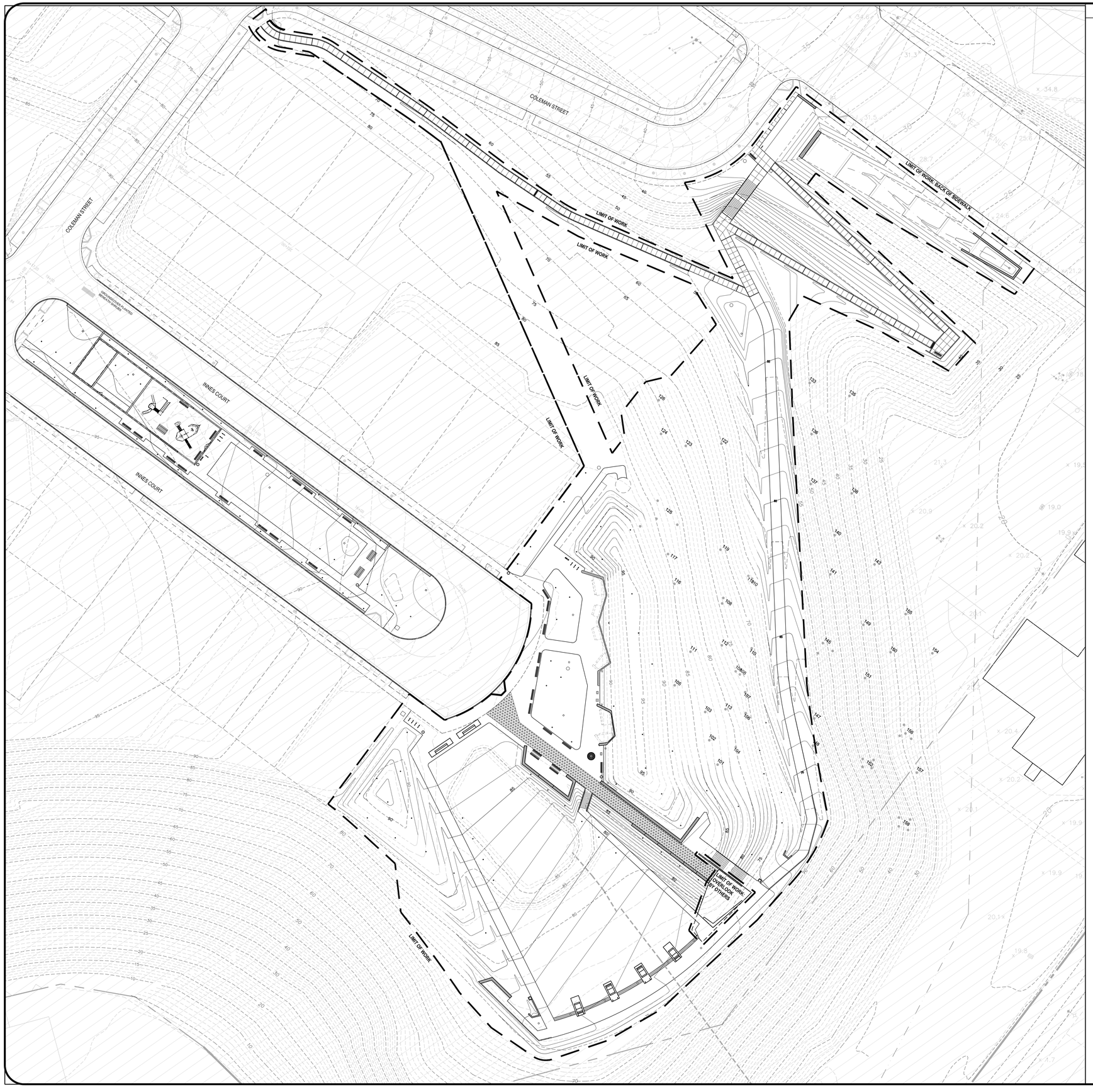
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RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=30'-0"
0' 15' 30' 60'
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Sheet Title:
Public Art
Location Plan

Sheet No:
L0.04



DEMOLITION LEGEND

REMOVE TOP 4" OF COMPACTED AB TEMPORARY PATH TO MATCH FINAL PCC SUBGRADE. RECOMPACT BOTTOM 4" OF AB AND CONSTRUCT FINAL SURFACE UNDER HILLTOP REGIONAL PARKS HUNTERS POINT SHIPYARD PARCEL A' PERMIT IB 01.

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Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=30'-0"
0' 15' 30' 60'
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Sheet Title:

Tempoary Path Demolition Plan

Sheet No:

L0.05

EROSION AND SEDIMENT CONTROL PLAN
PARCEL 'A', HUNTERS POINT SHIPYARD
PHASE ONE OPEN SPACE
SAN FRANCISCO, CALIFORNIA

BEST MANAGEMENT PRACTICES NOTES
RISK LEVEL 2 REQUIREMENTS

THE FOLLOWING NOTES INCLUDE MINIMUM REQUIREMENTS EXCERPTED FROM ATTACHMENT D OF CA STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 2009-0009 DWQ, NPDES NO. CAS000002 FOR A RISK LEVEL 2 SITE.

A. EFFLUENT STANDARDS

1. STORMWATER DISCHARGES AND AUTHORIZED NON-STORMWATER DISCHARGES REGULATED BY SWRCB ORDER NO. 2009-0009 DWQ SHALL NOT CONTAIN A HAZARDOUS SUBSTANCE EQUAL TO OR IN EXCESS OF REPORTABLE QUANTITIES ESTABLISHED IN 40 C.F.R. §§117.3 AND 302.4, UNLESS A SEPARATE NPDES PERMIT HAS BEEN ISSUED TO REGULATE THOSE DISCHARGES.
2. DISCHARGERS SHALL MINIMIZE OR PREVENT POLLUTANTS IN STORM WATER DISCHARGES AND AUTHORIZED NON-STORMWATER DISCHARGES THROUGH THE USE OF CONTROLS, STRUCTURES, AND MANAGEMENT PRACTICES THAT ACHIEVE BAT FOR TOXIC AND NON-CONVENTIONAL POLLUTANTS AND BCT FOR CONVENTIONAL POLLUTANTS.
3. NUMERIC - RISK LEVEL 2 DISCHARGERS ARE SUBJECT TO A PH NAL OF 6.5-8.5, AND A TURBIDITY NAL OF 250 NTU.

B. GOOD SITE MANAGEMENT "HOUSEKEEPING"

CONSTRUCTION MATERIALS
1. MAINTAIN AN INVENTORY OF THE PRODUCTS USED AND/OR EXPECTED TO BE USED AND THE END PRODUCTS THAT ARE PRODUCED AND/OR EXPECTED TO BE PRODUCED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E., POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
2. COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E., SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.).
3. STORE CHEMICALS IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
4. MINIMIZE EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E., POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
5. IMPLEMENT BMPS TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.
6. APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN MATERIAL STORAGE AREA.

WASTE MANAGEMENT
1. PREVENT DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM.
2. ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER.
3. CLEAN OR REPLACE SANITATION FACILITIES AND INSPECTING THEM REGULARLY FOR LEAKS AND SPILLS.
4. COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT.
5. PREVENT DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER.
6. TRASH RECEPTACLES WILL BE PROVIDED THROUGHOUT THE SITE AND UTILIZED BY ALL WORKERS FOR MISCELLANEOUS TRASH. SITE REFUSE WILL BE PICKED UP ON A WEEKLY BASIS OR AS OFTEN AS NECESSARY IN ORDER TO KEEP THE SITE CLEAN. FAILURE TO COMPLY WITH SITE CLEANUP AND/OR BMPS MAY RESULT IN THE ISSUANCE OF A CORRECTIVE NOTICE, CITATION, OR PROJECT STOP WORK ORDER.
7. CONTAIN AND SECURELY PROTECT STOCKPILED WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.
8. IMPLEMENT PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS.
9. DEVELOP A SPILL RESPONSE AND IMPLEMENTATION ELEMENT OF THE SWPPP PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE SWPPP SHALL REQUIRE THAT:
   i. EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE AND THAT SPILLS AND LEAKS SHALL BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY; AND
   ii. APPROPRIATE SPILL RESPONSE PERSONNEL ARE ASSIGNED AND TRAINED.
10. ENSURE THE CONTAINMENT OF CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO THE SURROUNDING AREAS.

VEHICLE STORAGE AND MAINTENANCE
1. PREVENT OIL, GREASE, OR FUEL TO LEAK IN TO THE GROUND, STORM DRAINS OR SURFACE WATERS.
2. PLACE ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.
3. APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN THE VEHICLE STORAGE AREA.
4. CLEAN LEAKS IMMEDIATELY AND DISPOSING OF LEAKED MATERIALS PROPERLY.
5. SUBCONTRACTORS SHOULD BE NOTIFIED THAT THEY ARE TO PARK ON PAVED OR DESIGNATED GRAVEL AREAS AND NOT DRIVE INTO UN-PAVED AREAS IN ORDER TO AVOID TRACKING DIRT ONTO PAVEMENT.

LANDSCAPE MATERIALS
1. CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOT ACTIVELY BEING USED.
2. CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOT ACTIVELY BEING USED.
3. DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.
4. APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURE RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
5. STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.

POTENTIAL POLLUTANTS
1. DISCHARGERS SHALL MAINTAIN A LIST OF POTENTIAL POLLUTANT SOURCES AND IDENTIFY ANY AREAS OF THE SITE WHERE ADDITIONAL BMPS ARE NECESSARY TO REDUCE OR PREVENT POLLUTANTS IN STORMWATER DISCHARGES AND AUTHORIZED NON-STORMWATER DISCHARGES. THIS POTENTIAL POLLUTANT LIST SHALL BE KEPT WITH THE SWPPP AND SHALL IDENTIFY ALL NON-VISIBLE POLLUTANTS WHICH ARE KNOWN, OR SHOULD BE KNOWN, TO OCCUR ON THE CONSTRUCTION SITE.

DUST CONTROL
1. DISCHARGERS SHALL IMPLEMENT GOOD HOUSEKEEPING MEASURES ON THE CONSTRUCTION SITE TO CONTROL THE AIR DEPOSITION OF SITE MATERIALS AND FROM SITE OPERATIONS. SUCH PARTICULATES CAN INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT, NUTRIENTS, TRASH, METALS, BACTERIA, OIL AND GREASE AND ORGANICS.
2. CONSTRUCTION TRAFFIC SPEEDS WILL BE LIMITED TO 15 MPH, OR LESS, AS REQUIRED BY THE CONTRACTOR.

C. NON-STORM WATER MANAGEMENT

1. DISCHARGERS SHALL IMPLEMENT MEASURES TO CONTROL ALL NON-STORMWATER DISCHARGES DURING CONSTRUCTION.
2. DISCHARGERS SHALL WASH VEHICLES IN SUCH A MANNER AS TO PREVENT NONSTORMWATER DISCHARGES TO SURFACE WATERS OR MS4 DRAINAGE SYSTEMS.
3. DISCHARGERS SHALL CLEAN STREETS IN SUCH A MANNER AS TO PREVENT UNAUTHORIZED NON-STORMWATER DISCHARGES FROM REACHING SURFACE WATER OR MS4 DRAINAGE SYSTEMS.
4. CONTRACTOR MUST APPLY FOR A WASTEWATER DISCHARGE PERMIT TO SFPUC-WWE/CSD PRIOR TO ANY DISCHARGE OF CONSTRUCTION WASTEWATER INTO THE CITY'S SEWER SYSTEM.

1

D. EROSION CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF EROSION CONTROL FOR THE PROJECT AND SHALL INSTALL AND MAINTAIN ANY DEVICES AND MEASURES NECESSARY TO THE SATISFACTION OF THE CITY OR COUNTY ENGINEER AND THE RWQCB.
2. EROSION CONTROL MEASURES WILL BE PROPERLY IN PLACE YEAR-ROUND. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY RAIN PROBABILITY EXCEEDS 50 PERCENT.
3. EXCAVATING, FILLING, BACKFILLING AND GRADING WORK SHALL NOT BE PERFORMED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN WORK IS INTERRUPTED BY RAIN, EXCAVATING, FILLING, BACKFILLING, AND GRADING WORK SHALL NOT BE RESUMED UNTIL THE SITE AND SOIL CONDITIONS ARE SUITABLE.
4. ALL WORK SHOULD BE SCHEDULED TO PRESERVE EXISTING VEGETATION (PEV) AND DISTURB THE SMALLEST PORTIONS POSSIBLE AT ANY ONE TIME. DISTURBED PORTIONS SHOULD BE STABILIZED AS SOON AS GRADING WORK IS COMPLETE.
5. DISCHARGERS SHALL IMPLEMENT EFFECTIVE WIND EROSION CONTROL.
6. DISCHARGERS SHALL PROVIDE EFFECTIVE SOIL COVER FOR INACTIVE AREAS AND ALL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL, AND COMPLETED LOTS. INACTIVE AREAS OF CONSTRUCTION ARE AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST 14 DAYS. APPLICABLE SOIL COVER INCLUDES GRAVEL, CONCRETE AND SOD, AS WELL AS POLYACRYLAMIDE, EROSION CONTROL MATTING, MULCH WITH TACKIFIER, BONDED FIBER MATRIX, OR HYDROSEEDING. REFER TO THE TABLES ON THIS NOTES SHEET FOR APPLICATION RATES DEPENDING UPON PRODUCT UTILIZED.
7. SLOPES WILL BE GRADED SO THAT WATER IS DIRECTED AWAY FROM THE SLOPE FACES AT THE END OF EACH WORKING DAY WHEN A CHANCE OF RAIN IS FORECAST.
8. ALL RILLS, GULLIES, ETC. WILL BE PROMPTLY REPAIRED AS PRACTICAL BY REGRADING OR INSTALLATION OF SOIL, GRAVEL OR SANDBAGS. REPAIRED RILLS SHOULD BE PROTECTED WITH EROSION CONTROL MATTING, BONDED FIBER MATRIX OR POLYACRYLAMIDE AND MULCH, OR EQUIVALENT (SEE APPLICATION TABLES).
9. DISCHARGERS SHALL LIMIT THE USE OF PLASTIC MATERIALS WHEN MORE SUSTAINABLE, ENVIRONMENTALLY FRIENDLY ALTERNATIVES EXIST. WHERE PLASTIC MATERIALS ARE DEEMED NECESSARY, THE DISCHARGER SHALL CONSIDER THE USE OF PLASTIC MATERIALS RESISTANT TO SOLAR DEGRADATION.

E. SEDIMENT CONTROLS

1. DISCHARGERS SHALL ESTABLISH AND MAINTAIN EFFECTIVE BMP PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM THE SITE YEAR-ROUND.
2. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THIS ENTRANCE. THE CONSTRUCTION ENTRANCE WILL CONSIST OF AN 8-INCH LAYER OF 3- TO 6-INCH COARSE AGGREGATE GRAVEL EXTENDING A MINIMUM DISTANCE OF 50 FEET AT EACH VEHICLE ACCESS POINT FROM EXISTING PAVED STREETS. SPRINKLING FOR DUST CONTROL SHOULD NOT BE UNDERTAKEN FOR AN ADDITIONAL 50 FEET FROM THE GRAVEL ENTRANCE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.
3. PAVED STREETS WILL BE MONITORED DAILY AND FREQUENTLY CLEANED. SOIL TRACKED ONTO THE STREET, OR EARTH MATERIAL AND DEBRIS STOCKPILED IN THE STREET, WILL BE PICKED UP BY A LOADER BUCKET AND/OR HAND SHOVELED WHEN OBSERVED. STREETS WILL ALSO BE SWEPT ON AT LEAST A WEEKLY BASIS OR MORE OFTEN, AS NEEDED, TO MAINTAIN CONTINUOUS LITTER AND TRACKING CONTROL. STREET WASHING WILL NOT BE DONE.
4. ALL DRAIN INLETS WILL BE PROTECTED AS THEY ARE COMPLETED, DURING THE ENTIRE COURSE OF CONSTRUCTION.
5. IF SEDIMENT BASINS ARE TO BE USED, DISCHARGERS SHALL, AT MINIMUM, DESIGN SEDIMENT BASINS ACCORDING TO THE METHOD PROVIDED IN CASQA'S CONSTRUCTION BMP GUIDANCE HANDBOOK.
6. AFTER EACH RAINSTORM, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS, STRAW ROLLS/WATTLES, SILT FENCES, AND SILT SACKS. SEDIMENT TRAPS/BASINS SHOULD ALSO BE OBSERVED AND PUMPED DRY AS NECESSARY TO ASSURE PROPER FUNCTION, AND CAPACITY. ANY REMOVED SEDIMENT SHOULD BE PLACED AWAY FROM CONCENTRATED FLOW (DRAINS, DITCHES, CRACKS) AT A SUITABLE ONSITE LOCATION OR REMOVED TO AN APPROPRIATE DISPOSAL SITE.
7. INTERIOR FIBER ROLLS/WATTLES MAY BE REMOVED AS THE AREA COMES UNDER CONSTRUCTION FOR FINISH GRADING AND LANDSCAPING INSTALLATION. PERIMETER PROTECTION SHOULD BE LEFT IN PLACE YEAR-ROUND.
8. GRAVEL CHECK DAMS MAY BE REMOVED FROM UNPAVED ROADWAYS AS THEY COME UNDER CONSTRUCTION.
9. RISK LEVEL 2 DISCHARGERS SHALL APPLY LINEAR SEDIMENT CONTROLS ALONG THE TOE OF THE SLOPE, FACE OF THE SLOPE, AND AT THE GRADE BREAKS OF EXPOSED SLOPES TO COMPLY WITH SHEET FLOW LENGTHS IN ACCORDANCE WITH TABLE 1.

TABLE 1

CRITICAL SLOPE/FLOW LENGTH COMBINATIONS

SLOPE PERCENTAGE	SHEET FLOW LENGTH NOT TO EXCEED
0-25%	20 FEET
25-50%	15 FEET
OVER 50%	10 FEET

F. RUN-ON AND RUNOFF CONTROLS

1. DISCHARGERS SHALL EFFECTIVELY MANAGE ALL RUN-ON, ALL RUNOFF WITHIN THE SITE, AND ALL RUNOFF THAT DISCHARGES OFF THE SITE. RUN-ON FROM OFFSITE SHALL BE DIRECTED AWAY FROM ALL DISTURBED AREAS OR SHALL COLLECTIVELY BE IN COMPLIANCE WITH THE EFFLUENT LIMITATIONS IN THIS GENERAL PERMIT.

G. INSPECTION, MAINTENANCE AND REPAIR

1. INSPECTION, MAINTENANCE, REPAIR AND SAMPLING ACTIVITIES AT THE PROJECT LOCATION SHALL BE PERFORMED OR SUPERVISED BY A QUALIFIED SWPPP PRACTITIONER (QSP) REPRESENTING THE DISCHARGER. THE QSP MAY DELEGATE ANY OR ALL OF THESE ACTIVITIES TO AN EMPLOYEE TRAINED TO DO THE TASK(S) APPROPRIATELY, BUT SHALL ENSURE ADEQUATE DEPLOYMENT.
2. INSPECTIONS AND OBSERVATIONS SHALL OCCUR WEEKLY, AND AT LEAST ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS, TO IDENTIFY AND RECORD BMPS THAT NEED MAINTENANCE TO OPERATE EFFECTIVELY, THAT HAVE FAILED, OR THAT COULD FAIL TO OPERATE AS INTENDED.
3. UPON IDENTIFYING FAILURES OR OTHER SHORTCOMINGS, AS DIRECTED BY THE QSP, REPAIRS OR DESIGN CHANGES TO BMPS SHOULD BE IMPLEMENTED WITHIN 48 HOURS OF IDENTIFICATION AND COMPLETE THE CHANGES AS SOON AS POSSIBLE. 1
4. FOR EACH INSPECTION REQUIRED, AN INSPECTION CHECKLIST SHALL BE COMPLETED, USING A FORM PROVIDED BY THE STATE WATER BOARD OR REGIONAL WATER BOARD OR IN AN ALTERNATIVE FORMAT. THE CHECKLIST SHOULD BE INSERTED INTO THE FIELD SWPPP BINDER AND KEPT FOR A PERIOD OF 3 YEARS.

H. RAIN EVENT ACTION PLAN

1. THE DISCHARGER SHALL ENSURE A QSP DEVELOP A RAIN EVENT ACTION PLAN (REAP) 48 HOURS PRIOR TO ANY LIKELY PRECIPITATION EVENT. A LIKELY PRECIPITATION EVENT IS ANY WEATHER PATTERN THAT IS FORECAST TO HAVE A 50% OR GREATER PROBABILITY OF PRODUCING PRECIPITATION IN THE PROJECT AREA. THE DISCHARGER SHALL ENSURE A QSP OBTAIN A PRINTED COPY OF PRECIPITATION FORECAST INFORMATION FROM THE NATIONAL WEATHER SERVICE FORECAST OFFICE (E.G., BY ENTERING THE ZIP CODE OF THE PROJECT'S LOCATION AT HTTP://WWW.SRH.NOAA.GOV/FORECAST).
2. THE DISCHARGER SHALL ENSURE A QSP DEVELOP THE REAPS FOR ALL PHASES OF CONSTRUCTION (I.E., GRADING AND LAND DEVELOPMENT, STREETS AND UTILITIES, VERTICAL CONSTRUCTION, FINAL LANDSCAPING AND SITE STABILIZATION).
3. THE DISCHARGER SHALL ENSURE A QSP BEGIN IMPLEMENTATION AND MAKE THE REAP AVAILABLE ONSITE NO LATER THAN 24 HOURS PRIOR TO THE LIKELY PRECIPITATION EVENT.

TABLE 2

SUMMARY OF MONITORING REQUIRMENTS

RISK LEVEL	VISUAL INSPECTIONS: QUARTERLY NON-STORM WATER DISCHARGE	VISUAL INSPECTIONS: PRE-STORM EVENT BASELINE	VISUAL INSPECTIONS: PRE-STORM EVENT REAP	VISUAL INSPECTIONS: DAILY STORM BMP	VISUAL INSPECTIONS: POST STORM	SAMPLE COLLECTION: STORM WATER DISCHARGE	SAMPLE COLLECTION: RECEIVING WATER
2	X	X	X	X	X	X	

I. RISK LEVEL 2 MONITORING AND REPORTING REQUIREMENTS

VISUAL MONITORING REQUIREMENTS FOR QUALIFYING RAIN EVENTS
1. RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT) STORM WATER DISCHARGES AT ALL DISCHARGE LOCATIONS WITHIN TWO BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT.
2. RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT) THE DISCHARGE OF STORED OR CONTAINED STORM WATER THAT IS DERIVED FROM AND DISCHARGED SUBSEQUENT TO A QUALIFYING RAIN EVENT PRODUCING PRECIPITATION OF 1/2 INCH OR MORE AT THE TIME OF DISCHARGE. STORED OR CONTAINED STORM WATER THAT WILL LIKELY DISCHARGE AFTER OPERATING HOURS DUE TO ANTICIPATED PRECIPITATION SHALL BE OBSERVED PRIOR TO THE DISCHARGE DURING OPERATING HOURS.
3. RISK LEVEL 2 DISCHARGERS SHALL CONDUCT VISUAL OBSERVATIONS (INSPECTIONS) DURING BUSINESS HOURS ONLY.
4. RISK LEVEL 2 DISCHARGERS SHALL RECORD THE TIME, DATE AND RAIN GAUGE READING OF ALL QUALIFYING RAIN EVENTS.
5. WITHIN 2 BUSINESS DAYS (48 HOURS) PRIOR TO EACH QUALIFYING RAIN EVENT, RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT):
   i. ALL STORM WATER DRAINAGE AREAS TO IDENTIFY ANY SPILLS, LEAKS, OR UNCONTROLLED POLLUTANT SOURCES. IF NEEDED, THE DISCHARGER SHALL IMPLEMENT APPROPRIATE CORRECTIVE ACTIONS.
   ii. ALL BMPS TO IDENTIFY WHETHER THEY HAVE BEEN PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SWPPP. IF NEEDED, THE DISCHARGER SHALL IMPLEMENT APPROPRIATE CORRECTIVE ACTIONS.
   iii. ANY STORM WATER STORAGE AND CONTAINMENT AREAS TO DETECT LEAKS AND ENSURE MAINTENANCE OF ADEQUATE FREEBOARD.
6. FOR THE VISUAL OBSERVATIONS (INSPECTIONS) DESCRIBED IN 4.I AND 4.III ABOVE, RISK LEVEL 2 DISCHARGERS SHALL OBSERVE THE PRESENCE OR ABSENCE OF FLOATING AND SUSPENDED MATERIALS, A SHEEN ON THE SURFACE, DISCOLORATIONS, TURBIDITY, ODORS, AND SOURCE(S) OF ANY OBSERVED POLLUTANTS.
7. WITHIN TWO BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT, RISK LEVEL 2 DISCHARGERS SHALL CONDUCT POST RAIN EVENT VISUAL OBSERVATIONS (INSPECTIONS) TO (1) IDENTIFY WHETHER BMPS WERE ADEQUATELY DESIGNED, IMPLEMENTED, AND EFFECTIVE, AND (2) IDENTIFY ADDITIONAL BMPS AND REVISE THE SWPPP ACCORDINGLY.
8. RISK LEVEL 2 DISCHARGERS SHALL MAINTAIN ON-SITE RECORDS OF ALL VISUAL OBSERVATIONS (INSPECTIONS), PERSONNEL PERFORMING THE OBSERVATIONS, OBSERVATION DATES, WEATHER CONDITIONS, LOCATIONS OBSERVED, AND CORRECTIVE ACTIONS TAKEN IN RESPONSE TO THE OBSERVATIONS.

WATER QUALITY SAMPLING AND ANALYSIS FOR QUALIFYING RAIN EVENTS
1. RISK LEVEL 2 DISCHARGERS SHALL COLLECT STORMWATER GRAB SAMPLES FROM SAMPLING LOCATIONS, AS DEFINED IN THE FOLLOWING SECTION. THE STORMWATER GRAB SAMPLE(S) OBTAINED SHALL BE REPRESENTATIVE OF THE FLOW AND CHARACTERISTICS OF THE DISCHARGE.
2. AT MINIMUM, RISK LEVEL 2 DISCHARGERS SHALL COLLECT 3 SAMPLES PER DAY OF THE QUALIFYING EVENT.
3. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT THE GRAB SAMPLES COLLECTED OF STORED OR CONTAINED STORMWATER ARE FROM DISCHARGES SUBSEQUENT TO A QUALIFYING RAIN EVENT (PRODUCING PRECIPITATION OF 1/2 INCH OR MORE AT THE TIME OF DISCHARGE).
4. RISK LEVEL 2 DISCHARGERS SHALL ANALYZE THEIR EFFLUENT SAMPLES FOR:
   i. PH AND TURBIDITY.
   ii. ANY ADDITIONAL PARAMETERS FOR WHICH MONITORING IS REQUIRED BY THE REGIONAL WATER BOARD.

STORMWATER DISCHARGE WATER QUALITY SAMPLING LOCATIONS
1. RISK LEVEL 2 DISCHARGERS SHALL PERFORM SAMPLING AND ANALYSIS OF STORMWATER DISCHARGES TO CHARACTERIZE DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE ENTIRE PROJECT DISTURBED AREA.
2. RISK LEVEL 2 DISCHARGERS SHALL COLLECT EFFLUENT SAMPLES AT ALL DISCHARGE POINTS WHERE STORMWATER IS DISCHARGED OFF-SITE.
3. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT STORMWATER DISCHARGE COLLECTED AND OBSERVED REPRESENT THE EFFLUENT IN EACH DRAINAGE AREA BASED ON VISUAL OBSERVATION OF THE WATER AND UPSTREAM CONDITIONS.
4. RISK LEVEL 2 DISCHARGERS SHALL MONITOR AND REPORT SITE RUN-ON FROM SURROUNDING AREAS IF THERE IS REASON TO BELIEVE RUN-ON MAY CONTRIBUTE TO AN EXCEEDANCE OF NALS OR NELS.
5. RISK LEVEL 2 DISCHARGERS WHO DEPLOY AN ATS ON THEIR SITE, OR A PORTION ON THEIR SITE, SHALL COLLECT ATS EFFLUENT SAMPLES AND MEASUREMENTS FROM THE DISCHARGE PIPE OR ANOTHER LOCATION REPRESENTATIVE OF THE NATURE OF THE DISCHARGE.
6. RISK LEVEL 2 DISCHARGERS SHALL SELECT ANALYTICAL TEST METHODS FROM THE LIST PROVIDED IN TABLE 3 BELOW.

STORMWATER SAMPLE COLLECTION AND REPORTING
1. RISK LEVEL 2 DISCHARGERS SHALL REFER TO TABLE 3 BELOW FOR TEST METHODS, DETECTION LIMITS, AND REPORTING UNITS.
2. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT TESTING LABORATORIES WILL RECEIVE SAMPLES WITHIN 48 HOURS OF THE PHYSICAL SAMPLING (UNLESS OTHERWISE REQUIRED BY THE LABORATORY), AND SHALL USE ONLY THE SAMPLE CONTAINERS PROVIDED BY THE LABORATORY TO COLLECT AND STORE SAMPLES.
3. RISK LEVEL 2 DISCHARGERS SHALL DESIGNATE AND TRAIN PERSONNEL TO COLLECT, MAINTAIN, AND SHIP SAMPLES IN ACCORDANCE WITH THE SURFACE WATER AMBIENT MONITORING PROGRAM'S (SWAMP) 2008 QUALITY ASSURANCE PROGRAM PLAN (QAPRP).
4. PH: RISK LEVEL 2 DISCHARGERS SHALL PERFORM PH ANALYSIS ON-SITE WITH A CALIBRATED PH METER OR A PH TEST KIT. RISK LEVEL 2 DISCHARGERS SHALL RECORD PH MONITORING RESULTS ON PAPER AND RETAIN THESE RECORDS.
5. TURBIDITY: RISK LEVEL 2 DISCHARGERS SHALL PERFORM TURBIDITY ANALYSIS USING A CALIBRATED TURBIDITY METER (TURBIDIMETER), EITHER ON-SITE OR AT AN ACCREDITED LAB. ACCEPTABLE TEST METHODS INCLUDE STANDARD METHOD 2130 OR USEPA METHOD 180.1. THE RESULTS WILL BE RECORDED IN THE SITE LOG BOOK IN NEPHELOMETRIC TURBIDITY UNITS (NTU).
6. IN THE EVENT THAT ANY EFFLUENT SAMPLE EXCEEDS AN APPLICABLE NAL, RISK LEVEL 2 DISCHARGERS SHALL ELECTRONICALLY SUBMIT ALL STORM EVENT SAMPLING RESULTS TO THE STATE WATER BOARD NO LATER THAN 10 DAYS AFTER THE CONCLUSION OF THE STORM EVENT. THE REGIONAL BOARDS HAVE THE AUTHORITY TO REQUIRE THE SUBMITTAL OF AN NAL EXCEEDANCE REPORT.
7. RISK LEVEL 2 DISCHARGERS SHALL CERTIFY EACH NAL EXCEEDANCE REPORT IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR CONSTRUCTION ACTIVITY.
8. RISK LEVEL 2 DISCHARGERS SHALL RETAIN AN ELECTRONIC OR PAPER COPY OF EACH NAL EXCEEDANCE REPORT FOR A MINIMUM OF THREE YEARS AFTER THE DATE THE ANNUAL REPORT IS FILED.
9. RISK LEVEL 2 DISCHARGERS SHALL INCLUDE IN THE NAL EXCEEDANCE REPORT:
   i. THE ANALYTICAL METHOD(S), METHOD REPORTING UNIT(S), AND METHOD DETECTION LIMIT(S) OF EACH ANALYTICAL PARAMETER (ANALYTICAL RESULTS THAT ARE LESS THAN THE METHOD DETECTION LIMIT SHALL BE REPORTED AS "LESS THAN THE METHOD DETECTION LIMIT").
   ii. THE DATE, PLACE, TIME OF SAMPLING, VISUAL OBSERVATION (INSPECTIONS), AND/OR MEASUREMENTS, INCLUDING PRECIPITATION.
   iii. A DESCRIPTION OF THE CURRENT BMPS ASSOCIATED WITH THE EFFLUENT SAMPLE THAT EXCEEDED THE NAL AND THE PROPOSED CORRECTIVE ACTIONS TAKEN.

TABLE 3

RISK LEVEL 2 TEST METHODS, DETECTION LIMITS, REPORTING UNITS AND APPLICABLE NALS/NELS

PARAMETER	TEST METHOD/ PROTOCOL	DISCHARGE TYPE	MINIMUM DETECTION LIMIT	REPORTING UNITS	NUMERIC ACTION LEVEL
PH	FIELD TEST WITH CALIBRATED PORTABLE INSTRUMENT	RISK LEVEL 2 DISCHARGES	0.2	PH UNITS	LOWER NAL = 6.5 UPPER NAL = 8.5
TURBIDITY	EPA 0180.1 AND/OR FIELD TEST WITH CALIBRATED PORTABLE INSTRUMENT	RISK LEVEL 2 DISCHARGES OTHER THAN ATS	1	NTU	250 NTU
		FOR ATS DISCHARGES	1	NTU	N/A

SHEET INDEX

SHEET NUMBER	TITLE
ER1.0	NOTES
ER2.0	BMP DETAILS
ER3.0	PLAN - HILLPOINT PARK
ER4.0	PLAN - HILLSIDE CENTRAL PARK

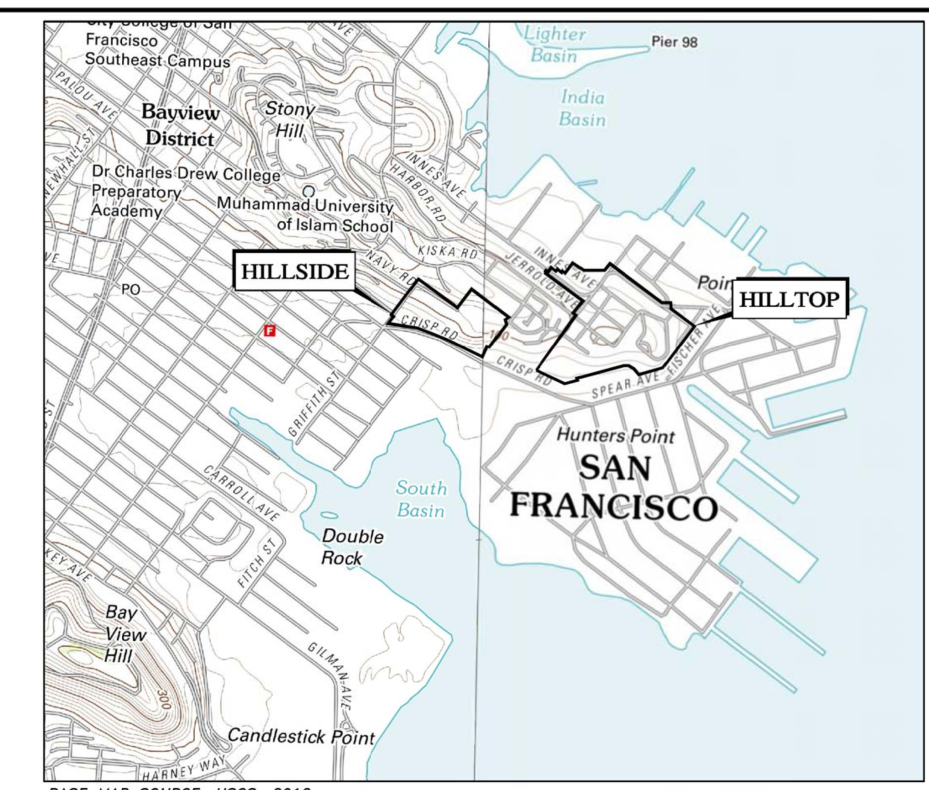
VISUAL OBSERVATION AND SAMPLE COLLECTION EXEMPTIONS
1. RISK LEVEL 2 DISCHARGERS ARE NOT REQUIRED TO PHYSICALLY COLLECT SAMPLES AND CONDUCT VISUAL OBSERVATION (INSPECTIONS) UNDER THE FOLLOWING CONDITIONS:
   -DURING DANGEROUS WEATHER CONDITIONS SUCH AS FLOODING AND ELECTRICAL STORMS.
   -OUTSIDE OF SCHEDULED SITE BUSINESS HOURS.
2. IF NO REQUIRED VISUAL OBSERVATIONS (INSPECTIONS) ARE COLLECTED DUE TO THESE EXCEPTIONS, RISK LEVEL 2 DISCHARGERS SHALL INCLUDE AN EXPLANATION IN THEIR SWPPP AND IN THE ANNUAL REPORT DOCUMENTING WHY THE SAMPLING OR VISUAL OBSERVATIONS (INSPECTIONS) WERE NOT CONDUCTED.

NON-STORMWATER DISCHARGE MONITORING REQUIREMENTS
1. VISUAL MONITORING REQUIREMENTS:
   i. RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT) EACH DRAINAGE AREA FOR THE PRESENCE OF (OR INDICATIONS OF PRIOR) UNAUTHORIZED AND AUTHORIZED NON-STORM WATER DISCHARGES AND THEIR SOURCES.
   ii. RISK LEVEL 2 DISCHARGERS SHALL CONDUCT ONE VISUAL OBSERVATION (INSPECTION) QUARTERLY IN EACH OF THE FOLLOWING PERIODS: JANUARY- MARCH, APRIL-JUNE, JULY-SEPTEMBER, AND OCTOBER-DECEMBER. VISUAL OBSERVATION (INSPECTIONS) ARE ONLY REQUIRED DURING DAYLIGHT HOURS (SUNRISE TO SUNSET).
   iii. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT VISUAL OBSERVATIONS (INSPECTIONS) DOCUMENT THE PRESENCE OR EVIDENCE OF ANY NON- STORM WATER DISCHARGE (AUTHORIZED OR UNAUTHORIZED), POLLUTANT CHARACTERISTICS (FLOATING AND SUSPENDED MATERIAL, SHEEN, DISCOLORATION, TURBIDITY, ODOR, ETC.), AND SOURCE. RISK LEVEL 2 DISCHARGERS SHALL MAINTAIN ON-SITE RECORDS INDICATING THE PERSONNEL PERFORMING THE VISUAL OBSERVATION (INSPECTIONS), THE DATES AND APPROXIMATE TIME EACH DRAINAGE AREA AND NON-STORM WATER DISCHARGE WAS OBSERVED, AND THE RESPONSE TAKEN TO ELIMINATE UNAUTHORIZED NON-STORM WATER DISCHARGES AND TO REDUCE OR PREVENT POLLUTANTS FROM CONTACTING NON-STORM WATER DISCHARGES.

NON-VISIBLE POLLUTANT MONITORING REQUIREMENTS
1. RISK LEVEL 2 DISCHARGERS SHALL COLLECT ONE OR MORE SAMPLES DURING ANY BREACH, MALFUNCTION, LEAKAGE, OR SPILL OBSERVED DURING A VISUAL INSPECTION WHICH COULD RESULT IN THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS THAT WOULD NOT BE VISUALLY DETECTABLE IN STORM WATER.
2. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT WATER SAMPLES ARE LARGE ENOUGH TO CHARACTERIZE THE SITE CONDITIONS.
3. RISK LEVEL 2 DISCHARGERS SHALL COLLECT SAMPLES AT ALL DISCHARGE LOCATIONS THAT CAN BE SAFELY ACCESSED DURING THE FIRST TWO HOURS OF DISCHARGE FROM RAIN EVENTS THAT OCCUR DURING BUSINESS HOURS AND WHICH GENERATE RUNOFF.
4. RISK LEVEL 2 DISCHARGERS SHALL ANALYZE SAMPLES FOR ALL NON-VISIBLE POLLUTANT PARAMETERS (IF APPLICABLE) - PARAMETERS INDICATING THE PRESENCE OF POLLUTANTS IDENTIFIED IN THE POLLUTANT SOURCE ASSESSMENT REQUIRED (RISK LEVEL 2 DISCHARGERS SHALL MODIFY THEIR CSMPS TO ADDRESS THESE ADDITIONAL PARAMETERS IN ACCORDANCE WITH ANY UPDATED SWPPP POLLUTANT SOURCE ASSESSMENT).
5. RISK LEVEL 2 DISCHARGERS SHALL COLLECT A SAMPLE OF STORM WATER THAT HAS NOT COME IN CONTACT WITH THE DISTURBED SOIL OR THE MATERIALS STORED OR USED ON-SITE (UNCONTAMINATED SAMPLE) FOR COMPARISON WITH THE DISCHARGE SAMPLE.
6. RISK LEVEL 2 DISCHARGERS SHALL KEEP ALL FIELD /OR ANALYTICAL DATA IN THE SWPPP DOCUMENT.

TYPICAL BMPs ON SHEET E-2

1) SURFACE ROUGHENING
2) GRAVEL BAG CHECK DAM FOR ROUGH GRADED AREAS
3) INLET PROTECTION IN ACTIVE CONSTRUCTION AREAS
4) INLET PROTECTION IN NON-ACTIVE CONSTRUCTION AREAS
5) TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
6) TEMPORARY COVER ON STOCKPILE
7) CHEMICAL TOILET
8) SILT FENCE
9) CONCRETE WASTE MANAGEMENT
10) STRAW WATTLE/FIBER ROLL



BASE MAP SOURCE: USGS, 2012

0 FEET 2000
0 METERS 1000

VICINITY MAP

TABLE I

HYDROMULCH AND TACKIFIER SPECIFICATIONS

APPLICATION A
THREE STEP APPLICATION METHOD
STEP 1
500 LBS. PER ACRE WOOD FIBER MULCH
1000 LBS. PER ACRE COMPOST
SEED AS SPECIFIED (SEE TABLE III)
300 LBS. PER ACRE FERTILIZER (16-6-8)
STEP 2
2 TONS PER ACRE STRAW
STEP 3
500 LBS. PER ACRE WOOD FIBER MULCH
200 LBS. PER ACRE ORGANIC TACKIFIER

APPLICATION B
ONE STEP APPLICATION METHOD
2000 LBS. PER ACRE WOOD FIBER MULCH OR APPROVED EQUIVALENT.
300 LBS. PER ACRE FERTILIZER (16-6-8)
1000 LBS. PER ACRE COMPOST

SEED AS SPECIFIED (SEE TABLE III)
200 LBS. PER ACRE ORGANIC TACKIFIER (SUCH AS M-BINDER BRAND)

APPLICATION C
STRAW AND TACKIFIER:
STRAW 2 TONS/ACRE
TACKIFIER 200 LBS/ACRE

TABLE II

POLYACRYLAMIDE SPECIFICATIONS

MATRIX-PRECIPITAION RATE: 19" OR LESS IN A 4-5 MONTH PERIOD.
SEE SEASON II #8 AND SEASON IB #6 NOTES

SLOPE	6:1	5:1	4:1	3:1	2:1	1.5:1	1:1
EARTHGUARD* (GALS/ACRE)	4	5	6	7	8	9	10
MULCH (LB./ARCRE)	800-1,000	1,000-1,200	1,200-1,500	1,500-1,800	1,800-2,500	2,000-2,500	2,500-3,000

*NOTE PRODUCED BY TERRA NOVO: 888-843-1029 OR APPROVED EQUIVALENT

TABLE III

SEED MIX

SEED MIX: (APPLICATION A)
ALL SEEDS MUST BE GROWN AND/OR COLLECTED FROM CALIFORNIA SOURCES

SCIENTIFIC NAME	COMMON NAME	RATE PER ACRE (LBS. OF PURE LIVE SEED)
BROMUS CARINATUS	'CUCAMONGA' CUCAMONGA BROME	25
VULPIA MICROSTACHYS	THREE-WEEKS FESCUE	12
TRIFOLIUM WILDENOVII (INOCULATED)	TOMCAT CLOVER	4
ELYMUS GLAUCUS	BLUE WILD RYE	10
LUPINUS SUCCULENTUS	ARROYO LUPINE	4

SEED MIX: (APPLICATION B)

SCIENTIFIC NAME	COMMON NAME	RATE PER ACRE (LBS. OF PURE LIVE SEED)
ELYMUS X TRITICUM	REGREEN HYBRID WHEATGRASS	80 LBS/ACRE

NOTE: ALL MUST BE PURELINE SEED. PRE-GERMINATION TREATMENTS WILL BE APPLIED BY SEED VENDOR IF REQUIRED

TABLE IV

EROSION CONTROL FABRIC (ECF) SPECIFICATIONS

CURLEX NETFREE, NORTH AMERICAN GREEN S150, WESTERN EXCELSIOR CS-3 OR APPROVED EQUIVALENT

TABLE V

BONDED FIBER MATRIX SPECIFICATIONS	
ECO AEGIS	2500 LB./ACRE
FLEX TERRA*	2500 LB./ACRE
OR APPROVED EQUIVALENT	

* SUPPLIER 925-373-4417

ENGEO
Expect Excellence
332 PINE STREET
SUITE 300
SAN FRANCISCO, CALIFORNIA 94104
(415) 284-9900
FAX (888) 279-2698
SAN RAMON - SAN JOSE - SAN FRANCISCO - OAKLAND - ROCKLIN - RIPON
SANTA CLARITA - IRVINE - NEW ZEALAND

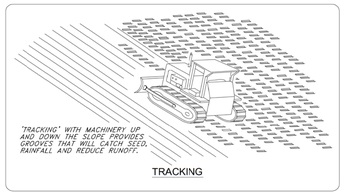
NOTES
EROSION AND SEDIMENT CONTROL PLAN
PARCEL 'A', HUNTERS POINT SHIPYARD
PHASE ONE OPEN SPACE
SAN FRANCISCO, CALIFORNIA

DESIGNED BY: JB
DRAWN BY: PC
CHECKED BY: SAP
DATE: MARCH 2014
SCALE: AS SHOWN

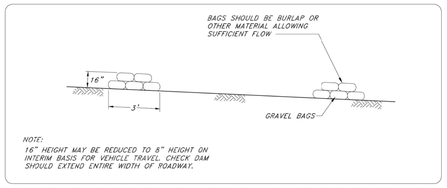
REV.	DATE	DESCRIPTION	BY
1	5/27/14	PLAN COMMENT REVISIONS	SAP

SHEET NUMBER
ER1.0
OF 4 SHEETS
PROJECT NO.
5638.617.014

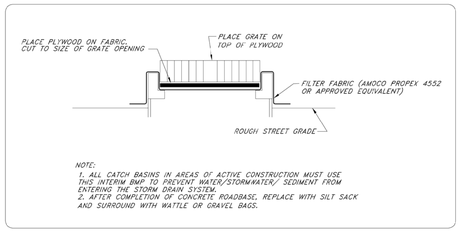
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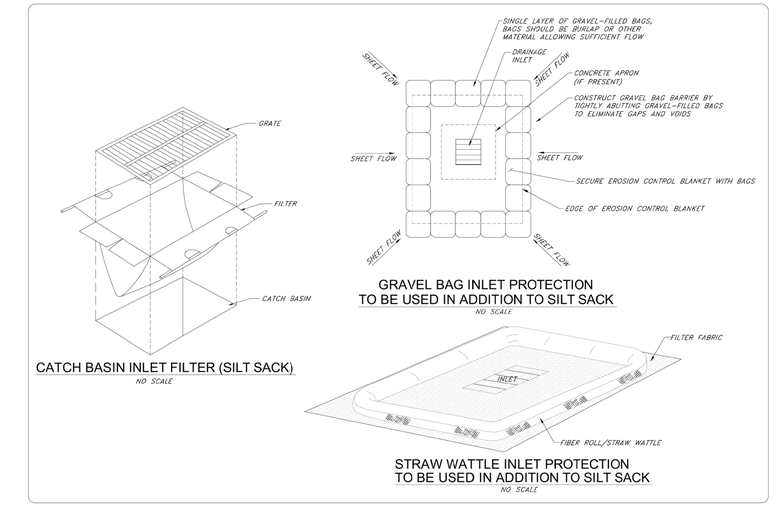
1 SURFACE ROUGHENING
NO SCALE



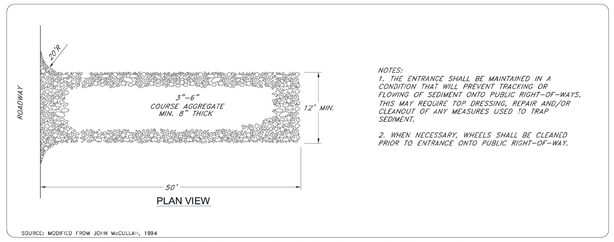
2 GRAVEL BAG CHECK DAM FOR ROUGH GRADED ROADWAYS
NO SCALE



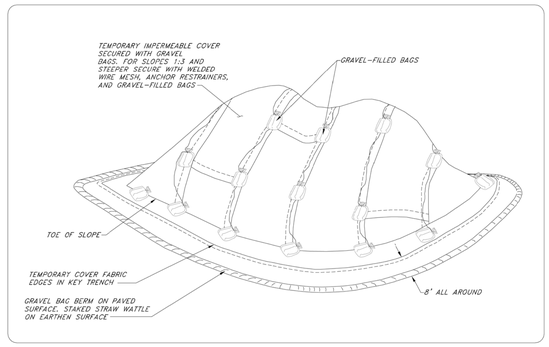
3 INLET PROTECTION IN ACTIVE CONSTRUCTION AREAS
NO SCALE



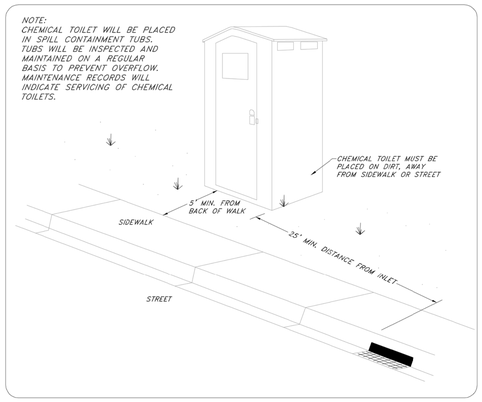
4 INLET PROTECTION IN NON-ACTIVE CONSTRUCTION AREAS
NO SCALE



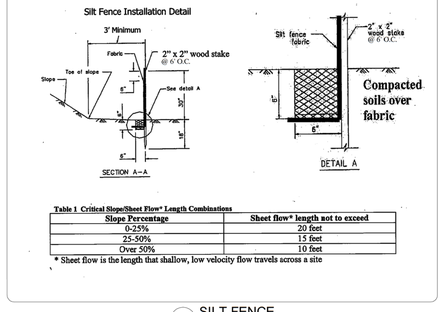
5 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
NO SCALE



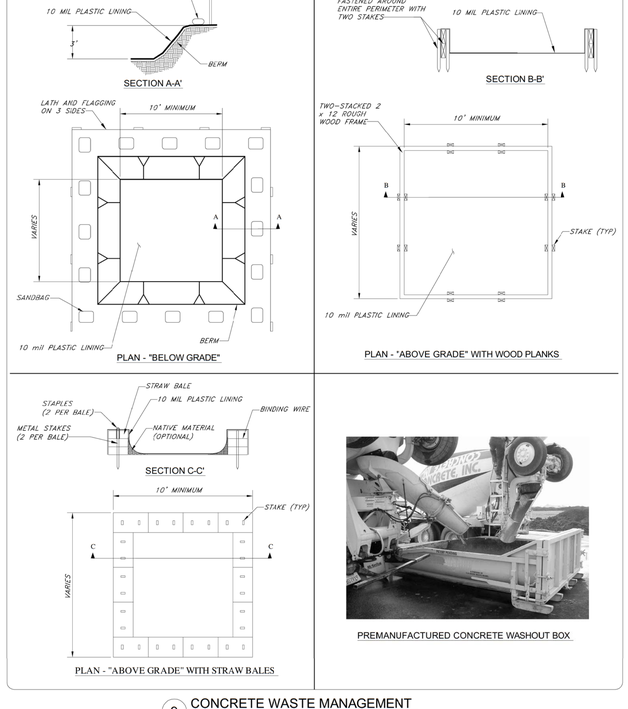
6 TEMPORARY COVER ON STOCKPILE
NO SCALE



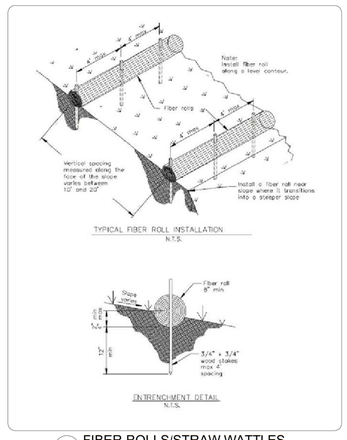
7 CHEMICAL TOILET
NO SCALE



8 SILT FENCE
NO SCALE



9 CONCRETE WASTE MANAGEMENT
NO SCALE



10 FIBER ROLLS/STRAW WATTLES
NO SCALE

332 PINE STREET
SUITE 300
SAN FRANCISCO, CALIFORNIA 94104
(415) 284-9900
FAX: (888) 279-2698
SAN RAMON - SAN JOSE - SAN FRANCISCO - OAKLAND - ROCKLIN - RIPON
SANTA CLARITA - IRVINE - NEW ZEALAND

BMP DETAILS
EROSION AND SEDIMENT CONTROL PLAN
PARCEL 'A', HUNTERS POINT SHIPYARD
PHASE ONE OPEN SPACE
SAN FRANCISCO, CALIFORNIA

DESIGNED BY: JB
DRAWN BY: PC
CHECKED BY: SAP
DATE: MARCH 2014
SCALE: AS SHOWN

REV.	DATE	DESCRIPTION	BY
-			

SHEET NUMBER
ER2.0
OF 4 SHEETS
PROJECT NO.
5638.617.014

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N

40 20 0 40

SCALE IN FEET

NOTES:

1. CONCRETE WASTE MANAGEMENT, MATERIAL STORAGE AND SOLID WASTE MANAGEMENT SHALL BE CONDUCTED IN CONFORMANCE WITH THE SITE STORMWATER POLLUTION PREVENTION PLAN DURING ALL CONSTRUCTION ACTIVITIES.
2. ALL EXPOSED SLOPES SHALL BE COVERED PRIOR TO RAIN EVENTS.

LEGEND

- LIMITS OF DISTURBED/CONSTRUCTION AREA
- HYDROSEED OR FINISHED LANDSCAPE WITH FIBER ROLL PER TABLE 1, SHEET E-1
- HARDSCAPE
- STABILIZED CONSTRUCTION ENTRANCE/ROADWAY
- DIRECTION OF DRAINAGE FLOW
- SM — STOCKPILE MANAGEMENT AREA (SEE DETAIL 7, SHEET E-2)
- SILT FENCE (SEE DETAIL 9, SHEET E-2)
- GBB — GRAVEL BAG BERMS (SEE DETAIL 2, SHEET E-2)
- FR — STRAW WATTLES/FIBER ROLLS (SEE DETAIL 11, SHEET E-2)
- CHEMICAL TOILET (SEE DETAIL 7, SHEET E-2)
- STORM DRAIN INLET PROTECTION (SEE DETAILS 3 AND 4, SHEET E-2)

332 PINE STREET
SUITE 300
SAN FRANCISCO, CALIFORNIA 94104
(415) 284-9900
FAX: (888) 279-2698
ENGEO Expect Excellence
SAN RAMON - SAN JOSE - SAN FRANCISCO - OAKLAND - ROCKLIN - RIPON
SANTA CLARITA - RENO - NEW ZEALAND

PLAN - HILLPOINT PARK
EROSION AND SEDIMENT CONTROL PLAN
PARCEL 'A', HUNTERS POINT SHIPYARD
PHASE ONE OPEN SPACE
SAN FRANCISCO, CALIFORNIA

DESIGNED BY:	JB
DRAWN BY:	PC
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DATE:	MARCH 2014
SCALE:	AS SHOWN

REV.	DATE	DESCRIPTION	BY
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PAVING

- P1 — DESCRIPTION: CAST-IN-PLACE CONCRETE; FINISH: MEDIUM BROOM; COLOR: NATURAL; JOINTS: TOOLED; DETAIL: 1/L6.00
- P2 — NOT USED
- P3 — DESCRIPTION: COBBLE STONE PAVING; SIZE: 3.5" X 3.5" X 3.5"; COLOR: ACADEMY BLACK; FINISH: FLAMED TOP, SPLIT FACE SIDES; DETAIL: 3/L6.00
- P4 — NOT USED
- P5A — DESCRIPTION: C.I.P. CONCRETE STAIR; FINISH & COLOR: MATCH ADJACENT PAVING, P1 OR P2; DETAIL: 5/L6.00; P5A: LOCATED AT HILLPOINT LAWN; P5B: LOCATED AT OVERLOOK; P5C: LOCATED AT COLEMAN BLUFF
- P5B
- P5C
- P6 — DESCRIPTION: C.I.P. CONCRETE CURB AT PAVING; FINISH & COLOR: MATCH ADJACENT PAVING, P1 OR P2. DETAIL: 11/L6.00
- P7 — NOT USED

PAVING, CONT.

- P8 — NOT USED
- P9 — DESCRIPTION: STRUCTURAL PLANTING SOIL AT TREE GRATE; DETAIL: 3/L6.08
- P10 — DESCRIPTION: CHECK DAM AT VEGETATED SWALE; DETAIL: 12/L6.01
- P11 — DESCRIPTION: VEHICULAR PLANT CELLS. SEE SPECIFICATIONS.
- P12 — DESCRIPTION: RIP RAP SPLASH BLOCK; DETAIL: 13/L6.01
- P13 — DESCRIPTION: ASPHALT PAVING WITH STEEL HEADER; DETAIL: 14/L6.00
- P14 — DESCRIPTION: ASPHALT CURB; DETAIL: 15/L6.00

DRAINS

- D1 — DESCRIPTION: AREA DRAIN IN PAVING; DETAIL: 1/L6.01
- D2 — DESCRIPTION: AREA DRAIN IN PLANTING; DETAIL: 2/L6.01
- D3 — DESCRIPTION: AREA DRAIN AT OVERLOOK; DETAIL: 3/L6.01

DRAINS, CONT.

- D4 — DESCRIPTION: TRENCH DRAIN; DETAIL: 4/L6.01
- D5 — DESCRIPTION: COBBLE BAND & LAWN SUBDRAIN; DETAIL: 3/L6.00
- D6 — DESCRIPTION: AREA DRAIN AT COBBLE BAND; DETAIL: 5/L6.01
- D7 — DESCRIPTION: WEEP THROUGH C.I.P. CONCRETE WALL; DETAIL: 6/L6.01
- D8 — DESCRIPTION: WEEP THROUGH C.I.P. CONCRETE CURB; DETAIL: 7/L6.01
- D9 — NOT USED
- D10 — DESCRIPTION: VEGETATED DITCH; DETAIL: 5/C5.00
- D11 — DESCRIPTION: OVERFLOW DRAIN AT VEGETATED SWALE; DETAIL: 2/C5.01

CONC. WALLS AND BENCHES

- W1A — DESCRIPTION: PRECAST CONCRETE BENCH – 'PINTO A'; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAILS: 1 & 2/L6.03A
- W1B — DESCRIPTION: PRECAST CONCRETE BENCH – 'PINTO B'; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAILS: 3 & 4/L6.03A

WALLS AND BENCHES, CONT.

- W2A — DESCRIPTION: C.I.P. CONCRETE WALL – 'PICNIC BOOTH WALL A' WITH TILE PUBLIC ART PIECE; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAILS: 1/L5.04
- W2B — DESCRIPTION: C.I.P. CONCRETE WALL – 'PICNIC WALL B' WITH TILE PUBLIC ART PIECE; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAILS: 2/L5.04
- W3 — DESCRIPTION: PRECAST CONCRETE BENCH – 'SOFA' INCLUDES SF15 – SKATE DETERRENT; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAIL: 1,2 & 3/L6.05
- W4 — DESCRIPTION: C.I.P. CONCRETE SEATWALL – TYPICAL INCLUDES SF15 – SKATE DETERRENT; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAIL: 4/L6.05
- W5 — DESCRIPTION: C.I.P. CONCRETE SEATWALL – TOP OF SLOPE INCLUDES SF15 – SKATE DETERRENT; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAIL: 5/L6.05
- W6 — DESCRIPTION: C.I.P. CONCRETE SEATWALL – RETAINING INCLUDES SF15 – SKATE DETERRENT; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAIL: 6/L6.05
- W7 — NOT USED
- W8A — DESCRIPTION: C.I.P. CONCRETE WALL–OVERLOOK PARAPET WALL FOR REFERENCE, NOT IN CONTRACT; FINISH: FORMBOARD COLOR: NATURAL; DETAIL: 10 & 11/L6.05 REFERENCE ONLY

WALLS AND BENCHES, CONT.

- W8B — DESCRIPTION: OVERLOOK PARAPET WALL AT STRUCTURE – NIC; FINISH: FORMBOARD COLOR: NATURAL; DETAIL: 3/S1.0
- W8C — DESCRIPTION: OVERLOOK PARAPET WALL AT OVERHANG – NIC; FINISH: FORMBOARD COLOR: NATURAL; DETAIL: 3/S1.0
- W9 — DESCRIPTION: C.I.P. CONCRETE WALL–OVERLOOK SEATWALL INCLUDES SF15 – SKATE DETERRENT; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAIL: 12/L6.05
- W10 — DESCRIPTION: HEADWALL; FINISH: FORMBOARD COLOR: NATURAL; DETAIL: 5, 6, 7, 8/C5.00
- W11 — DESCRIPTION: C.I.P. CONCRETE FLOW SPREADER; FINISH: LIGHT SANDBLAST SMOOTH COLOR: NATURAL; DETAIL: 13 & 14/L6.01

SITE FURNITURE

- SF1-A — DESCRIPTION: BENCH WITH BACK AND ARMRESTS (6' OR 8' LONG AS NOTED); DETAIL: 1/L6.07
- SF1-B — DESCRIPTION: BACKLESS BENCH WITH ARMRESTS; DETAIL: 2/L6.07
- SF2 — NOT USED
- SF3-A — DESCRIPTION: BBQ; DETAIL: 7/L6.07
- SF3-B — DESCRIPTION: BBQ HOT COAL BIN; DETAIL: 7/L6.07

SITE FURNITURE, CONT.

- SF4 — DESCRIPTION: BIKE RACK; DETAIL: 8/L6.07
- SF5 — DESCRIPTION: DRINKING FOUNTAIN; DETAIL: 9 & 10/L6.07
- SF6 — DESCRIPTION: TRASH & RECYCLING; DETAIL: 11/L6.07
- SF7 — DESCRIPTION: TREE GRATE; DETAIL: 1/L6.08
- SF8-A — NOT USED
- SF8-B — NOT USED
- SF8-C — NOT USED
- SF9 — NOT USED
- SF10 — NOT USED
- SF11 — DESCRIPTION: METAL HANDRAIL AT STAIRS; DETAIL: 6/L6.00
- SF12 — DESCRIPTION: METAL HEADER; DETAIL: 10/L4.05
- SF13 — DESCRIPTION: PARK SIGNS. IDENTITY RULES & RESTRICTIONS. SEE SPECIFICATIONS
- SF14 — DESCRIPTION: "RAFT BENCH"; DETAIL: 1,2/L6.06
- SF15 — DESCRIPTION: SKATE DETERRENT. SEE WALL SCHEDULE. DETAIL: 13,14/L6.05

LIGHTS

- L1 — DESCRIPTION: BOLLARD; DETAIL: 1/L6.11
- L2 — DESCRIPTION: POLE LIGHT; DETAIL: 3/L6.11
- L3 — DESCRIPTION: SPOT LIGHT ON 25'H OR 50'H POLE (SHARED W/ L4: FLOOD LIGHT). SEE PLAN FOR LOCATIONS. DETAIL: 7/L6.11
- L4 — DESCRIPTION: FLOOD LIGHT ON 50'H POLE. DETAIL: 8/L6.11
- L5 — DESCRIPTION: RECESSED CEILING LIGHT; DETAIL: 9/L6.11
- L6 — DESCRIPTION: RECESSED WALL LIGHT; DETAIL: 10/L6.11
- L7 — DESCRIPTION: POWER PEDESTAL WITH GFCI PEDESTAL SEE ELECTRICAL PLANS

NOTES

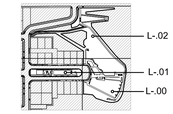
1. FOR INFORMATION ON MASS GRADING, UTILITY CONNECTIONS, STREET INFRASTRUCTURE AND ELECTRICAL SERVICE, SEE REFERENCED DRAWINGS:
   - A. HUNTER'S POINT SHIPYARD DEVELOPMENT PROJECT–PARCEL A GRADING AND RETAINING WALLS.
   - B. HUNTER'S POINT SHIPYARD DEVELOPMENT PROJECT –PARCEL A INFRASTRUCTURE.
2. FOR DRAINAGE, SEE CIVIL SHEETS C1.00–C5.00.
3. FOR FULL LIGHTING SCHEDULE. SEE ELECTRICAL SHEETS E1.00–E5.00.
4. (•) PROPOSED TREES, SEE PLANTING PLAN.



CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Date
Renewal Date
10/31/15
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB.01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1/16"=1'-0"
0' 8' 16' 32'
N

Sheet Title:

Materials Site Plan
Hillpoint

Sheet No:

L1.00

PAVING

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- P7 — NOT USED

PAVING, CONT.

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- D6 — DESCRIPTION: AREA DRAIN AT COBBLE BAND; DETAIL: 5/L6.01
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- SF3-A — DESCRIPTION: BBQ HOT COAL BIN; DETAIL: 7/L6.07

SITE FURNITURE, CONT.

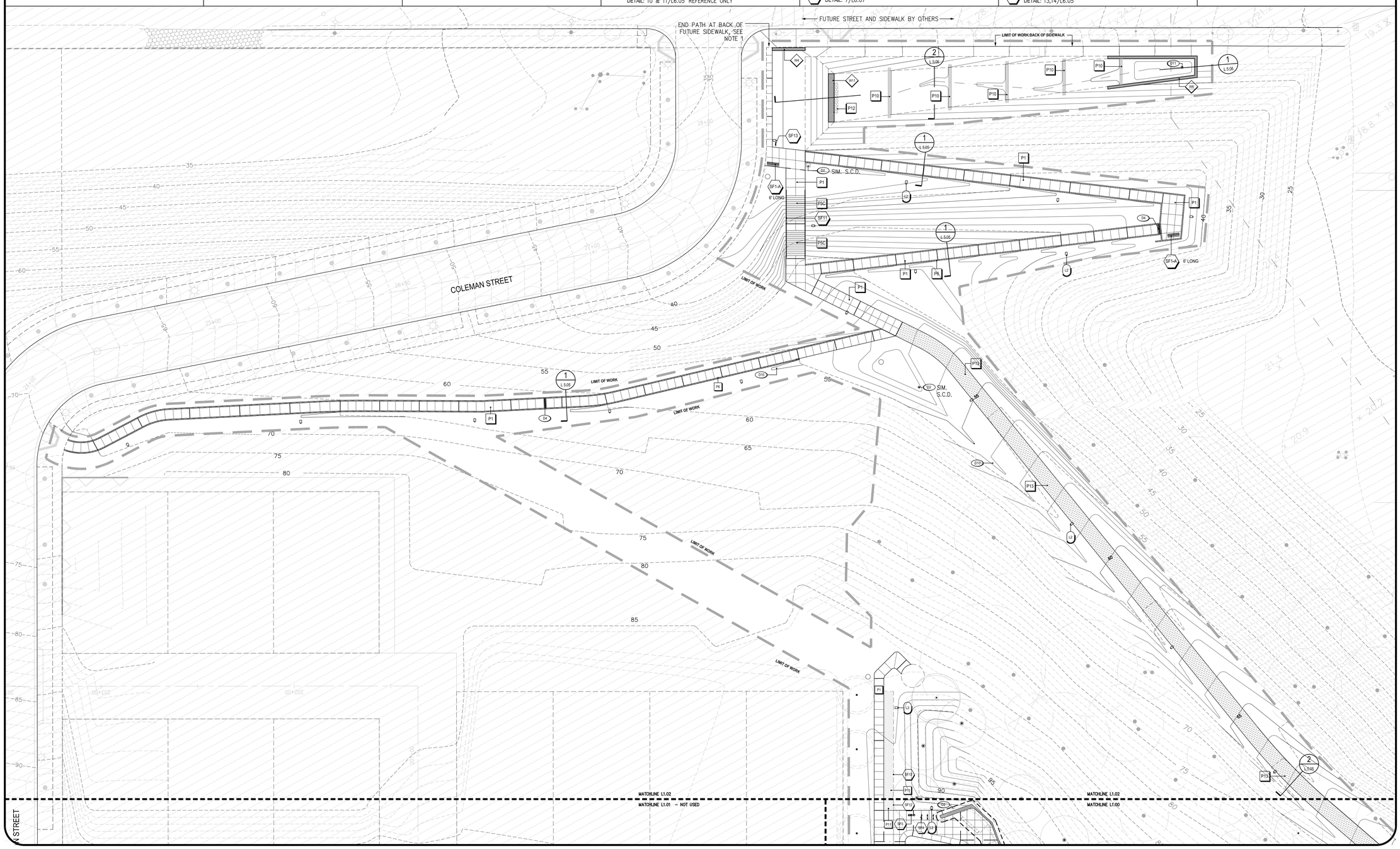
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- L7 — DESCRIPTION: POWER PEDESTAL WITH GFCI PEDESTAL SEE ELECTRICAL PLANS

NOTES

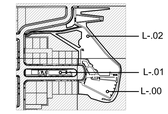
1. FOR INFORMATION ON MASS GRADING, UTILITY CONNECTIONS, STREET INFRASTRUCTURE AND ELECTRICAL SERVICE, SEE REFERENCED DRAWINGS:
   A. HUNTER'S POINT SHIPYARD DEVELOPMENT PROJECT–PARCEL A GRADING AND RETAINING WALLS.
   B. HUNTER'S POINT SHIPYARD DEVELOPMENT PROJECT –PARCEL A INFRASTRUCTURE.
2. FOR DRAINAGE, SEE CIVIL SHEETS C1.00–C5.00.
3. FOR FULL LIGHTING SCHEDULE. SEE ELECTRICAL SHEETS E1.00–E5.00.
4. (•) PROPOSED TREES, SEE PLANTING PLAN.



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LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/15
Renewal Date
Date
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
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9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB.01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

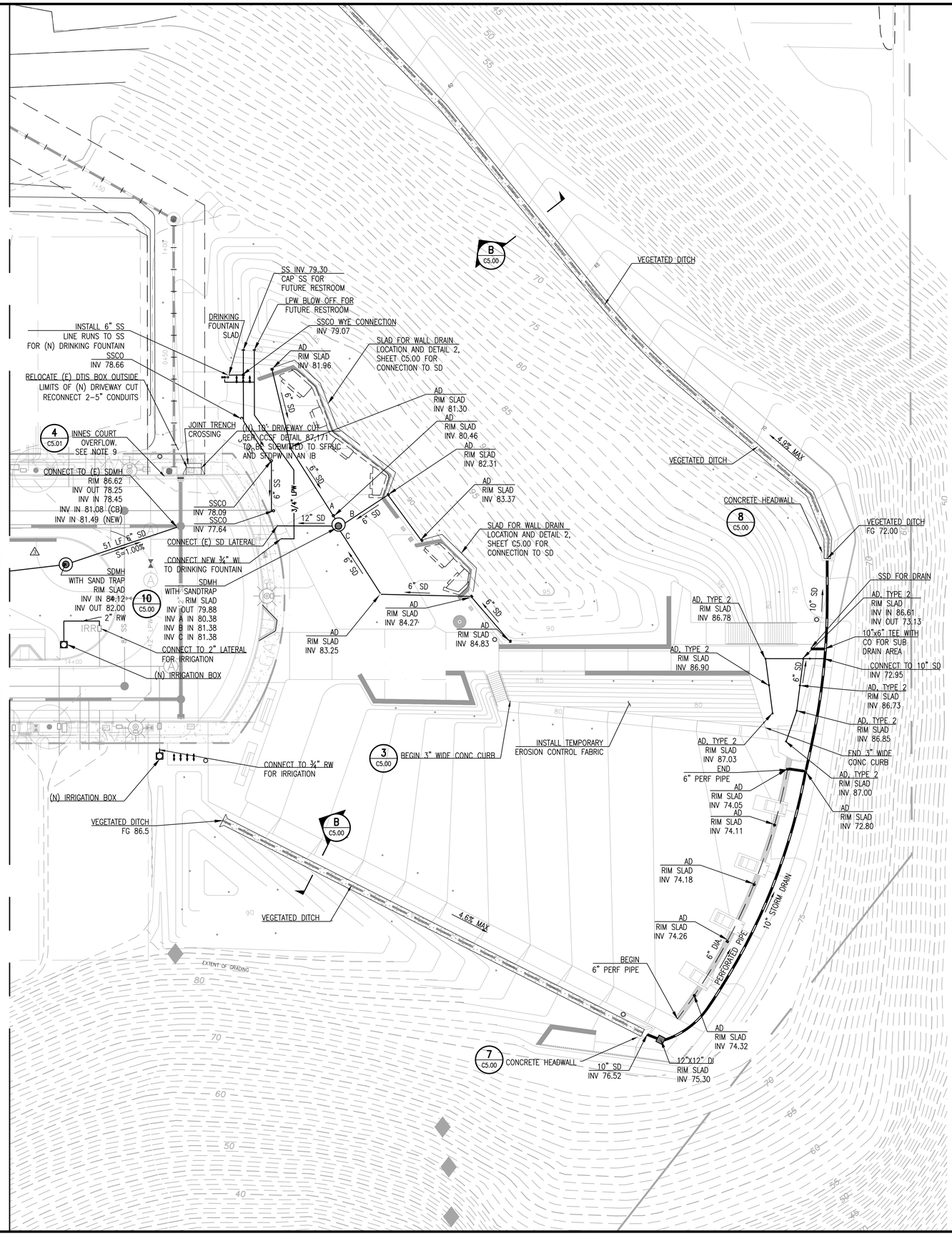
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0' 10' 20' 40'
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Sheet Title:

Materials Site Plan
Coleman Bluff

Sheet No:

L1.02



DRAINAGE LEGEND

- DROP INLET
- CLEAN OUT/AIR VENT
- AREA DRAIN
- TRENCH DRAIN
- VEGETATED DITCH
- CONCRETE HEADWALL
- SLOPE
- (E) 6" SUB DRAINAGE PIPE
- PERFORATED PIPE
- STORM DRAIN MANHOLE AND PIPE
- STORM DRAIN MANHOLE
- (N) IRRIGATION CONTROL BOX

AD	AREA DRAIN
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
DF	DRINKING FOUNTAIN
EX, (E)	EXISTING GRADE
FF	FINISHED FLOOR
GB	GRADE BREAK
HP	HIGH POINT
IE	INVERT ELEVATION
LP	LOW POINT
LPW	LOW PRESSURE WATER
MH	STORM MANHOLE
PUE	PUBLIC UTILITIES EASEMENT
RIM	RIM ELEVATION
SD	STORM DRAIN
SDCO	STORM DRAIN CLEANOUT
SFPUC	S.F. PUBLIC UTILITIES COMMISSION
SLAD	SEE LANDSCAPE ARCHITECT DWGS
SDMH	STORM DRAIN MANHOLE
SSD	SEE STRUCTURAL DWGS
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
TC	TOP OF CURB
TFG	TOP OF FOOTING
WM	WATER METER

DRAINAGE AND UTILITY NOTES

FOR INFORMATION ON MASS GRADING, UTILITY CONNECTIONS AND ELECTRICAL SERVICE SEE REFERENCED DRAWINGS :

1. **HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT PARCEL A' – "GRADING AND RETAINING WALLS"**
2. **HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT PARCEL A' – "INFRASTRUCTURE"**

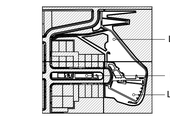
GENERAL NOTES:

1. **SEE LANDSCAPE ARCHITECT DRAWINGS FOR SITE GRADING AND LAYOUT OF DRAINAGE FEATURES AT SURFACE.**
2. **EXISTING STORM DRAINAGE BASIN SHALL BE FILLED TO MEET NEW GRADES AND ANY EXISTING PIPING IN CONFLICT WITH NEW WORK SHALL BE REMOVED AND DISPOSED.**
3. **STORM DRAIN PIPE TO BE PVC UNLESS OTHERWISE NOTED.**
4. **DRAINAGE FROM LANDSCAPED AREAS MUST CONNECT TO THE SFPUC SYSTEM VIA A SAND TRAP.**
5. **ALL UTILITY TRENCH SECTIONS SHALL BE PER 3/C5.01. MAINTAIN 1' MINIMUM VERTICAL SEPARATION BETWEEN UTILITY CROSSINGS.**
6. **COORDINATE OVERLOOK DRAIN LOCATIONS WITH L5.00 OVERLOOK ENLARGEMENT SERIES.**
7. **PROVIDE LOCKING MECHANISM ON ALL STORM DRAIN COVERS.**
8. **DRAINAGE FACILITIES WITHIN THE PARKS ARE NOT MAINTAINED BY THE SFPUC EXCEPT FOR PIPELINE WITHIN THE PUE FROM INNES COURT TO COLEMAN STREET.**
9. **FINAL DESIGN OF STRUCTURE WILL BE DETERMINED ON THE STREET IMPROVEMENT PERMIT FOR HUNTERS POINT PHASE 1, VIA INSTRUCTIONAL BULLETIN.**

SCALE: 1"=20' 0' 10' 20' 40'

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One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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No:	Revision	Date:
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Description:

RE-BID SET

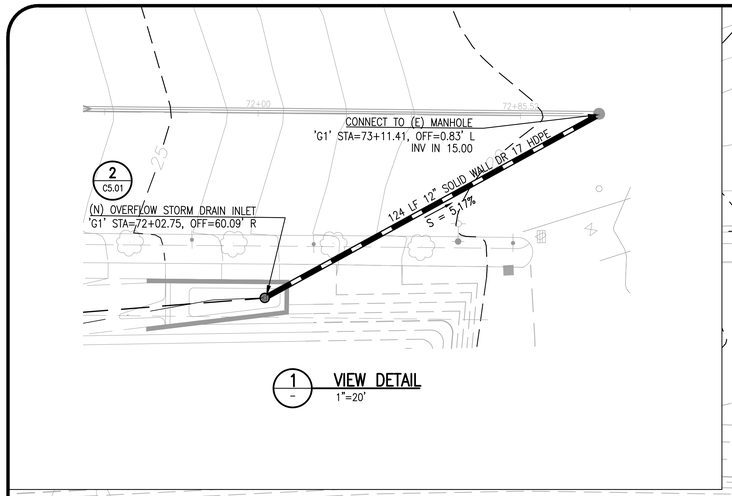
Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

DRAINAGE & UTILITIES
HILLPOINT PLAN

Sheet No:

C1.00



1 VIEW DETAIL
1"=20'

DRAINAGE LEGEND

- OR ◆ DROP INLET
- CLEAN OUT/AIR VENT
- AREA DRAIN
- TRENCH DRAIN
- VEGETATED DITCH
- CONCRETE HEADWALL
- 2% SLOPE
- (E) 6" SUB DRAINAGE PIPE
- PERFORATED PIPE
- STORM DRAIN MANHOLE AND PIPE
- STORM DRAIN MANHOLE
- (N) IRRIGATION CONTROL BOX
- (N) OVERFLOW STORM DRAIN INLET

AD	AREA DRAIN
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
DF	DRINKING FOUNTAIN
EX, (E)	EXISTING GRADE
FF	FINISHED FLOOR
GB	GRADE BREAK
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DRAINAGE AND UTILITY NOTES

FOR INFORMATION ON MASS GRADING, UTILITY CONNECTIONS AND ELECTRICAL SERVICE SEE REFERENCED DRAWINGS :

1. HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT PARCEL A' – "GRADING AND RETAINING WALLS"
2. HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT PARCEL A' – "INFRASTRUCTURE"

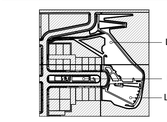
GENERAL NOTES:

1. SEE LANDSCAPE ARCHITECT DRAWINGS FOR SITE GRADING AND LAYOUT OF DRAINAGE FEATURES AT SURFACE.
2. EXISTING STORM DRAINAGE BASIN SHALL BE FILLED TO MEET NEW GRADES AND ANY EXISTING PIPING IN CONFLICT WITH NEW WORK SHALL BE REMOVED AND DISPOSED.
3. STORM DRAIN PIPE TO BE PVC UNLESS OTHERWISE NOTED.
4. DRAINAGE FROM LANDSCAPED AREAS MUST CONNECT TO THE SFPUC SYSTEM VIA A SAND TRAP.
5. ALL UTILITY TRENCH SECTIONS SHALL BE PER 3/C5.01. MAINTAIN 1' MINIMUM VERTICAL SEPARATION BETWEEN UTILITY CROSSINGS.
6. COORDINATE OVERLOOK DRAIN LOCATIONS WITH L5.00 OVERLOOK ENLARGEMENT SERIES.
7. PROVIDE LOCKING MECHANISM ON ALL STORM DRAIN COVERS.
8. DRAINAGE FACILITIES WITHIN THE PARKS ARE NOT MAINTAINED BY THE SFPUC EXCEPT FOR PIPELINE WITHIN THE PUE FROM INNES COURT TO COLEMAN STREET.
9. FINAL DESIGN OF STRUCTURE WILL BE DETERMINED ON THE STREET IMPROVEMENT PERMIT FOR HUNTERS POINT PHASE 1, VIA INSTRUCTIONAL BULLETIN.
10. HDPE PIPE SHALL BE BUTT WELDED.

SCALE: 1"=20' 0' 10' 20' 40'

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One Sansome Street, Suite 3200
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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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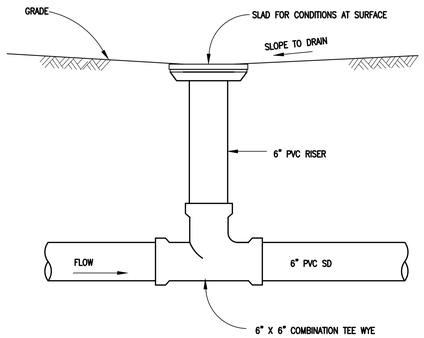
No:	Revision	Date:

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RE-BID SET

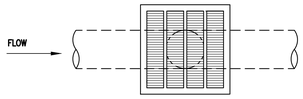
Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
DRAINAGE & UTILITIES
COLEMAN BLUFF PLAN

Sheet No:
C1.02



SECTION

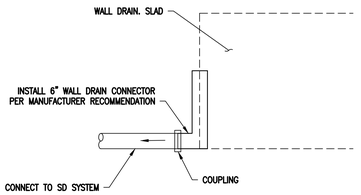


PLAN

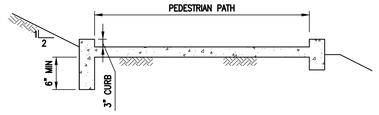
NOTES:

1. AREA DRAIN GRATE AND ADAPTER SHALL BE ADS DRAINTECH NO. 1202SDDI, 12" SQUARE GRATE, OR APPROVED EQUAL.
2. PIPE ADAPTER SHALL BE ADS LOW PROFILE ADAPTER NO. 1207SD FOR 6" PVC PIPE OR APPROVED EQUAL.

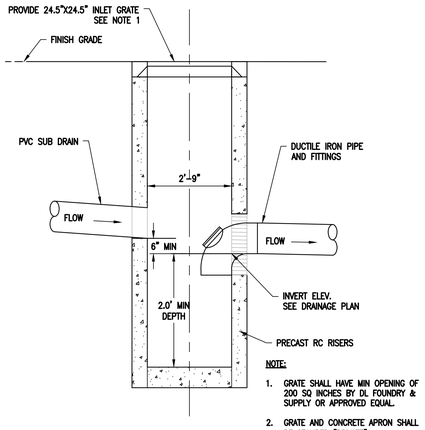
1 TYPICAL AREA DRAIN DETAIL
NOT TO SCALE



2 WALL DRAIN CONNECTION DETAIL
NOT TO SCALE



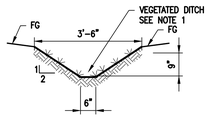
3 SIDEWALK SECTION
NOT TO SCALE



NOTE:

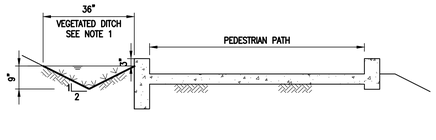
1. GRATE SHALL HAVE MIN OPENING OF 200 SQ INCHES BY DL FOUNDRY & SUPPLY OR APPROVED EQUAL.
2. GRATE AND CONCRETE APRON SHALL BE STAMPED "PRIVATE".

4 TYPICAL DROP INLET WITH SAND TRAP DETAIL
NOT TO SCALE



A NOT USED
NOT TO SCALE

B SECTION
NOT TO SCALE

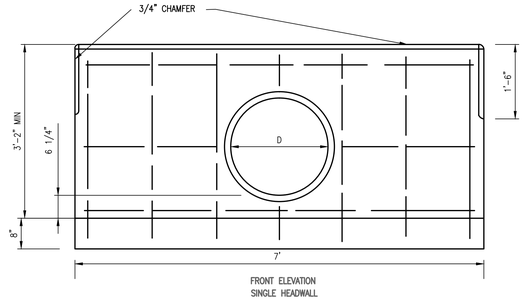


NOTE:

1. INSTALL TEMPORARY LINING FABRIC (AMERICAN GREEN P300 OR EQUIVALENT) IN ALL TYPES OF VEGETATED DITCH.
2. SLAD FOR GRADING.

C SECTION
NOT TO SCALE

5 V-DITCH DETAIL
NOT TO SCALE

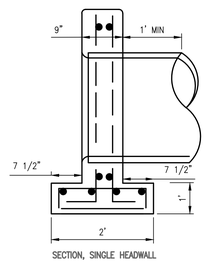


FRONT ELEVATION
SINGLE HEADWALL

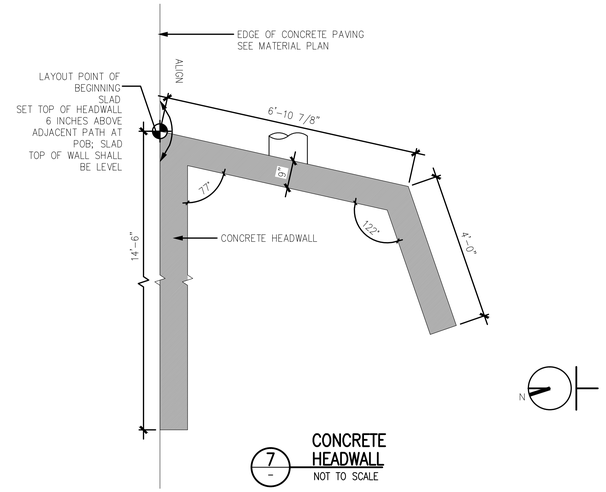
NOTES:

1. ALL REINFORCING STEEL #4 BARS. ALL VERTICAL AND HORIZONTAL TIE BARS 1'-6" MAXIMUM SPACING.
2. DIMENSIONS OF WALL MAY BE VARIED TO SUIT CONDITIONS ENCOUNTERED IN THE FIELD.

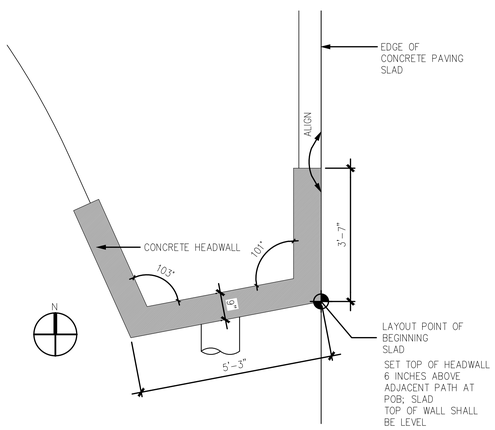
6 CONCRETE HEADWALL
NOT TO SCALE



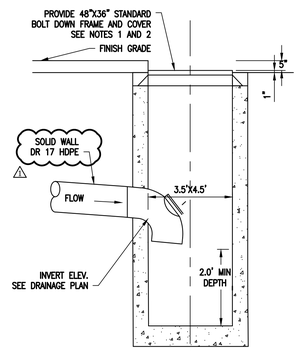
SECTION, SINGLE HEADWALL



7 CONCRETE HEADWALL
NOT TO SCALE



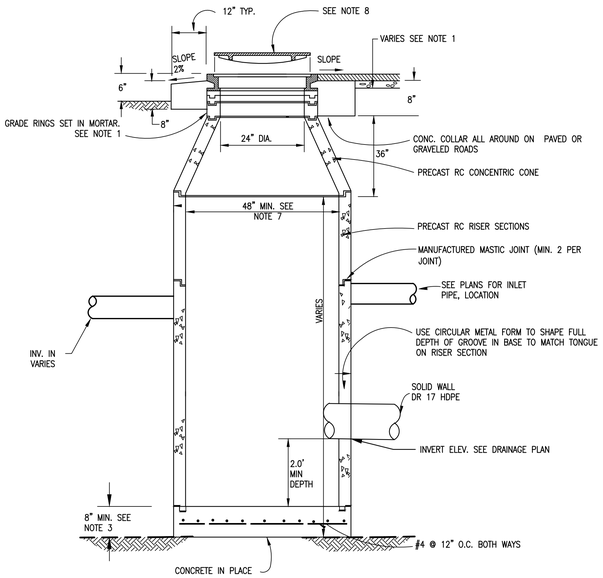
8 CONCRETE HEADWALL
NOT TO SCALE



NOTE:

1. GRATING SHALL BE PEDESTRIAN/BIKE ALLOWABLE WITH MIN OPENING OF 350 SQUARE INCHES. BY DL FOUNDRY & SUPPLY OR APPROVED EQUAL.
2. STANDARD FRAME AND COVER UNLESS NOTED ON PLANS TO HAVE GRATE OPENINGS. COVER SHALL BE MARKED PRIVATE. SHALL BE BY DL FOUNDRY & SUPPLY OR APPROVED EQUAL. COVERS SERVICING PARK SHALL BE LABEL "PRIVATE." DRAINAGE COVERS SERVICING INNES COURT OVERFLOW DRAINAGE SHALL BE LABELED "CITY STORM DRAIN"

9 DROP INLET WITH SAND TRAP DETAIL
NOT TO SCALE



NOTES:

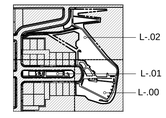
1. PROVIDE MINIMUM OF ONE GRADE RING AND A MAXIMUM OF THREE, EXCEPT ON NON-FINAL GRADE STREETS AS DETERMINED BY ENGINEER, WHICH SHALL HAVE 2'-0" OF 2" GRADE RINGS.
2. MANHOLES ON OFF-ROAD STORM MAINS SHALL EXTEND 6" ABOVE EXISTING GRADE AND SHALL HAVE A BOLT DOWN COVER.
3. IF CONCRETE MANHOLE BASE EXTENDS 12" BELOW STORM LINES FLOWLINE, STEEL MAY BE OMITTED.
4. STORM LINES WHICH ARE STRAIGHT THRU MANHOLES AND HAVE THE SAME PIPE DIAMETER SHALL BE SLOPED THE SAME AS THE STORM LINE U.N.O.
5. STANDARD STORM MANHOLES WITH 90° BENDS WILL NORMALLY HAVE THE INLET SET 0.10 FEET ABOVE THE OUTLET.
6. AT JUNCTION MANHOLES WHERE THE PIPE SIZE CHANGES, THE CROWN OF THE SMALLER PIPE SHALL BE LEVEL WITH THE CROWN OF THE LARGER PIPE.
7. MANHOLES SHALL BE 60" DIAMETER WHERE A 21" DIAMETER OR LARGER STORM LINE ENTERS AND/OR EXITS MANHOLE.
8. STANDARD FRAME AND COVER UNLESS NOTED ON PLANS TO HAVE GRATE OPENINGS. COVER SHALL BE MARKED PRIVATE. SHALL BE BY DL FOUNDRY & SUPPLY OR APPROVED EQUAL. COVERS SERVICING PARK SHALL BE LABEL "PRIVATE." DRAINAGE COVERS SERVICING INNES COURT OVERFLOW DRAINAGE SHALL BE LABELED "CITY STORM DRAIN"

10 STORM DRAIN MANHOLE WITH SANDTRAP DETAIL
NOT TO SCALE

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

REGISTERED PROFESSIONAL ENGINEER DANIEL GARRETT No. C74206 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE
HILLPOINT PARK
COLEMAN BLUFF

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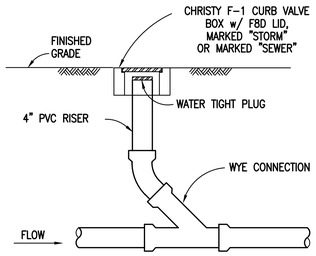
No:	Revision	Date:
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Description:
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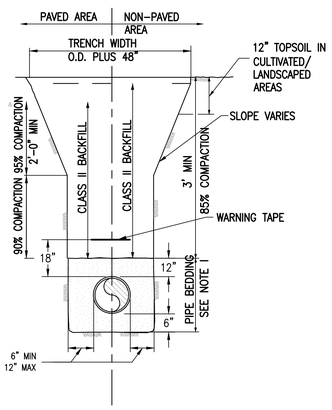
Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
DRAINAGE & UTILITIES DETAILS

Sheet No:
C5.00



1 – TYPICAL CLEANOUT DETAIL
NOT TO SCALE

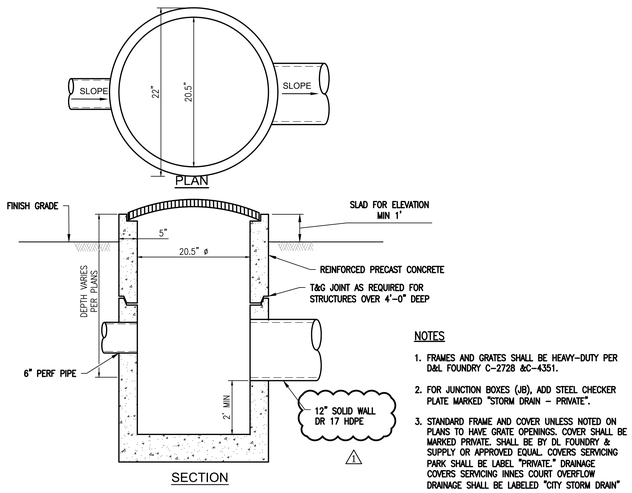


NOTES:

1. ALL PIPE BEDDING SHALL CONFORM TO THE APPLICABLE REQUIREMENTS AND PROVISIONS OF THE SPECIFICATIONS.

2. BACKFILL SHALL BE CLASS II WHERE COVER TO SUB-GRADE IS LESS THAN 30" FOR ALL MAINS AND LATERALS IN FUTURE PAVED AREAS UNLESS SPECIFIED OTHERWISE.

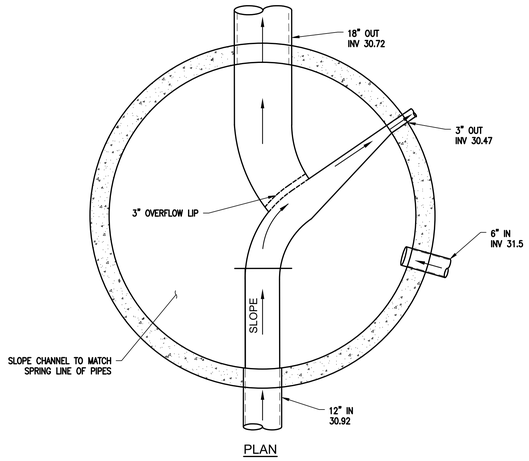
3 – TRENCH SECTION
NOT TO SCALE



NOTES

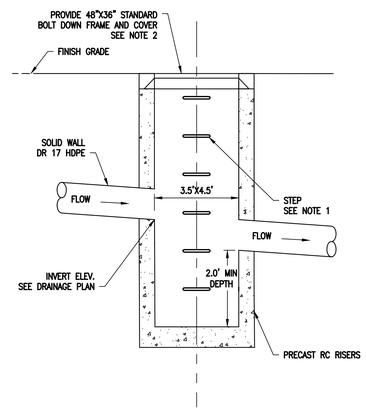
1. FRAMES AND GRATES SHALL BE HEAVY-DUTY PER D&L FOUNDRY C-2728 &C-4351.
2. FOR JUNCTION BOXES (JB), ADD STEEL CHECKER PLATE MARKED "STORM DRAIN – PRIVATE".
3. STANDARD FRAME AND COVER UNLESS NOTED ON PLANS TO HAVE GRATE OPENINGS. COVER SHALL BE MARKED PRIVATE. SHALL BE BY DL FOUNDRY & SUPPLY OR APPROVED EQUAL. COVERS SERVICING PARK SHALL BE LABEL "PRIVATE." DRAINAGE COVERS SERVICING INNES COURT OVERFLOW DRAINAGE SHALL BE LABELED "CITY STORM DRAIN"

2 – OVERFLOW STORM DRAIN INLET
NOT TO SCALE

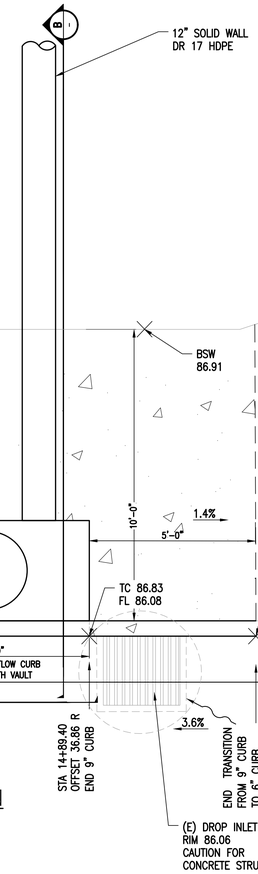


5 – MANHOLE DETAIL
NOT TO SCALE

NOTE:
1. USE POLY COATED STEPS. 3/4" DIA. GALV. STEEL STEPS ARE PLACED 12" O.C. VERTICALLY AND 6" FROM JOINTS. SEE LOCAL CODE FOR STEPS.
2. STANDARD FRAME AND COVER SHALL BE SECURED TO PRECAST SECTION. COVER SHALL BE MARKED PRIVATE. SHALL BE BY DL FOUNDRY & SUPPLY OR APPROVED EQUAL. COVERS SERVICING PARK SHALL BE LABEL "PRIVATE."



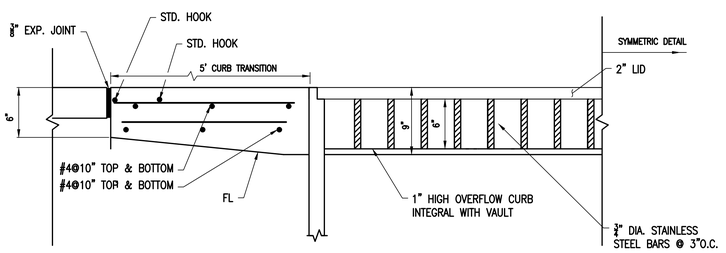
6 – PRECAST SD DROP INLET WITH SOLID BOLT DOWN MANHOLE COVER AND FRAME
NOT TO SCALE



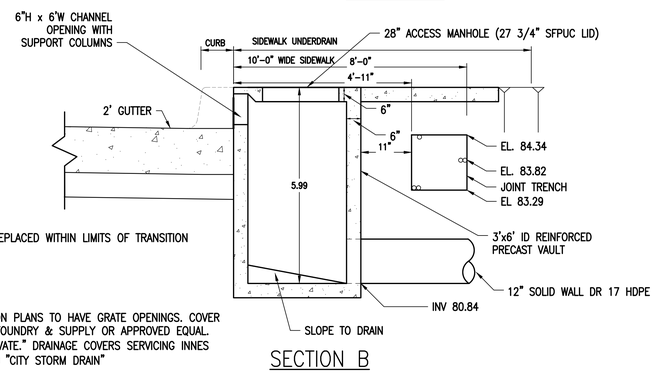
NOTES:

1. VAULT TO BE TRAFFIC RATED
2. (E) CURB AND GUTTER TO BE REMOVED AND REPLACED WITHIN LIMITS OF TRANSITION AREA.
3.
4. MAINTENANCE PLAN WILL BE REQUIRED.
5. STANDARD FRAME AND COVER UNLESS NOTED ON PLANS TO HAVE GRATE OPENINGS. COVER SHALL BE MARKED PRIVATE. SHALL BE BY DL FOUNDRY & SUPPLY OR APPROVED EQUAL. COVERS SERVICING PARK SHALL BE LABEL "PRIVATE." DRAINAGE COVERS SERVICING INNES COURT OVERFLOW DRAINAGE SHALL BE LABELED "CITY STORM DRAIN"

4 / C1.00 – INNES COURT OVERFLOW DETAIL
NOT TO SCALE



SECTION A

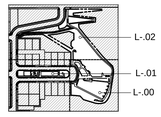


SECTION B

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

REGISTERED PROFESSIONAL ENGINEER DANIEL S. BANTILAN No. C74205 Exp. 12/31/15 CIVIL STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

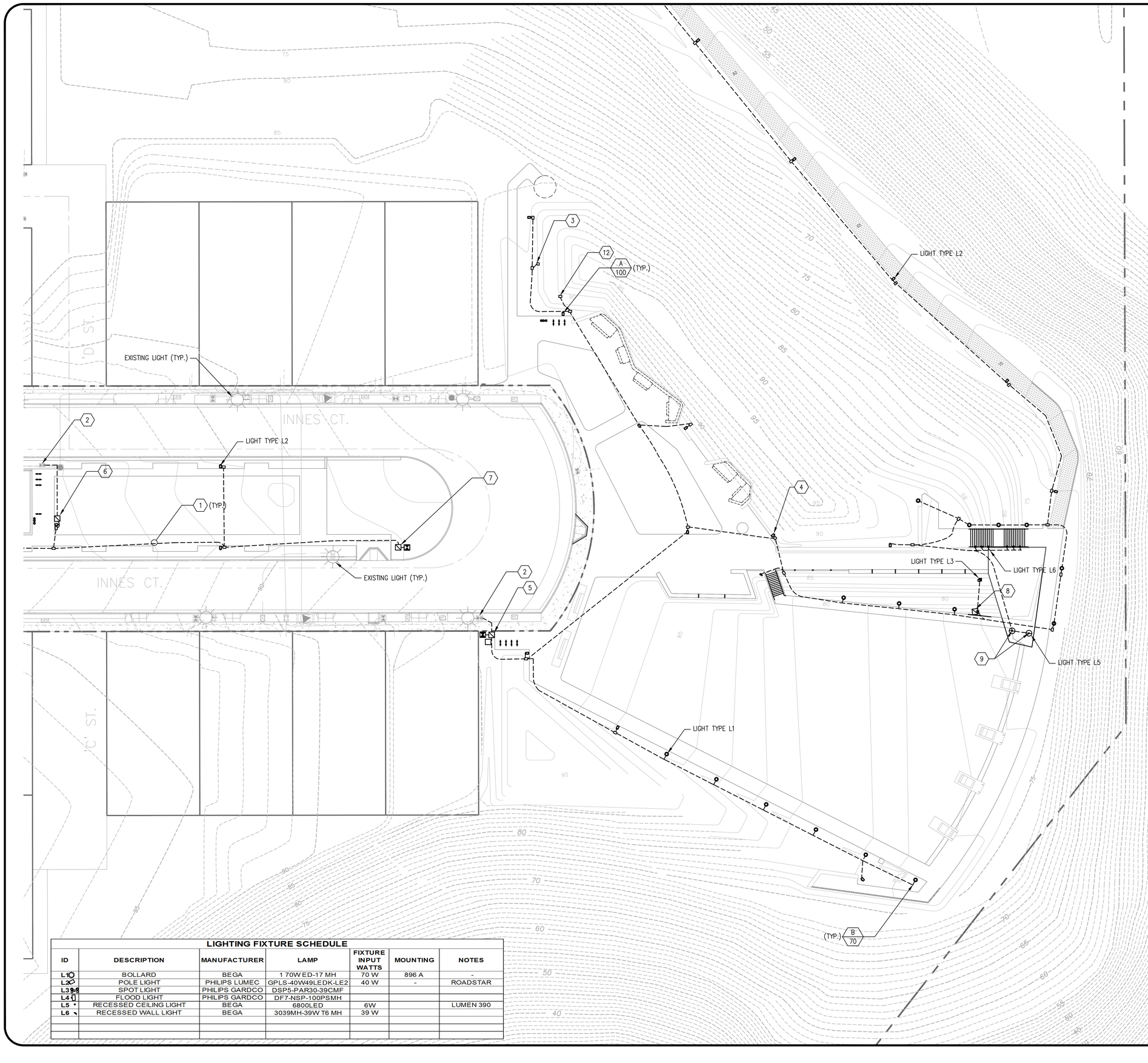
No:	Revision	Date:

Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
DRAINAGE & UTILITIES DETAILS

Sheet No:
C5.01



LIGHTING FIXTURE SCHEDULE

ID	DESCRIPTION	MANUFACTURER	LAMP	FIXTURE INPUT WATTS	MOUNTING	NOTES
L1	BOLLARD	BEGA	1 70W ED-17 MH	70 W	896 A	-
L2	POLE LIGHT	PHILIPS LUMEC	GPLS-40W49LEDK-LE2	40 W	-	ROADSTAR
L3 & 4	SPOT LIGHT	PHILIPS GARDCO	DSP5-PAR30-39CMF			
L4	FLOOD LIGHT	PHILIPS GARDCO	DF7-NSP-100PSMH			
L5	RECESSED CEILING LIGHT	BEGA	6800LED	6W		LUMEN 390
L6	RECESSED WALL LIGHT	BEGA	3039MH-39W T6 MH	39 W		

LEGEND

- NEW POWER PEDESTAL
- UNDERGROUND PULLBOX
- UNDERGROUND CONDUITS
- FIXTURE TYPE DESIGNATION (SEE SCHEDULE) — DENOTES TYPE: A; DENOTES WATTS: 100
- PEDESTRIAN LIGHT
- IRRIGATION CONTROLLER
- LIGHT BOLLARD
- SPOTLIGHT
- FLOOD LIGHT
- RECESSED CEILING LIGHT
- RECESSED WALL LIGHT

SHEET NOTES

1. LAYOUT OF LIGHT FIXTURES ON ELECTRICAL DRAWINGS IS DIAGRAMMATIC. SEE LIGHT LAYOUT PLAN, L2.05, FOR LOCATION AND LAYOUT OF LIGHTING FIXTURES.

2. LAYOUT OF LIGHTING PULLBOXES ON ELECTRICAL DRAWINGS IS DIAGRAMMATIC. ALIGN ROTATION OF PULLBOX WITH EDGE OF PAVING.

3. ALL LIGHT FIXTURES MUST BE SUBMITTED TO THE AGENCY FOR PRIOR APPROVAL, PRIOR TO INSTALLATION.

4. LOCATE PULLBOXES IN PLANTING WHERE A SHOULDER IS PROVIDED. WHEN NO SHOULDER IS PROVIDED IN PLANTING AREA, LOCATE PULLBOXES IN ADJACENT PAVING. ALWAYS ALIGN LONG EDGE OF PULLBOXES WITH EDGE OF PAVING.

5. ANY INSTRUCTIONAL BULLETIN TO AMEND THE STREET INFRASTRUCTURE IN ORDER TO PROVIDE POWER TO THIS PARK WILL NEED TO BE SUBMITTED PRIOR TO PERMITTING OF THE PARKS.

KEYNOTES

1. PROVIDE:
   a) 1–1/2"C GRSC, 3#8 AWG, 1#10 AWG FOR PEDESTRIAN LIGHTS.
   b) 1"C GRSC, 2#10 AWG, 1#10 AWG FOR GENERAL RECEPTACLES.
   c)1" GRSC, 2#10 AWG, 1#10 AWG FOR IRRIGATION CONTROLLER.

2. CONNECT TO SFPUC 120/240V SECONDARY SERVICE.

3. PROVIDE 1–1/2"C GRSC WITH PULL STRING FOR FUTURE RESTROOM.

4. PROVIDE GFCI RECEPTACLE WITH WEATHERPROOF BOX AND COVER MOUNTED ON LIGHT POLE.

5. 120/240V POWER PEDESTAL WITH 60A MAIN DISCONNECT SWITCH:
   a) 240V, 20A CIRCUIT BREAKER FOR PEDESTRIAN LIGHTS.
   b) 120V, 20A CIRCUIT BREAKER FOR IRRIGATION CONTROLLER.
   c 120V, 20A CIRCUIT BREAKER FOR GENERAL RECEPTACLES.

6. 120/240V POWER PEDESTAL WITH 60A MAIN DISCONNECT SWITCH:
   a) 240V, 20A CIRCUIT BREAKER FOR PEDESTRIAN LIGHTS.
   b) 120V, 20A CIRCUIT BREAKER FOR GENERAL RECEPTACLES.

7. 120/240V POWER PEDESTAL WITH 60A MAIN DISCONNECT SWITCH:
   a) 120V, 20A CIRCUIT BREAKER FOR IRRIGATION CONTROLLER.
   b) 120V, 20A CIRCUIT BREAKER FOR GENERAL RECEPTACLES.

8. INSTALL POWER PEDESTAL WITH GFCI RECEPTACLE.

9. LIGHTS INSTALLED IN THE CEILING OF OVERLOOK CANTILEVER, L5.

10. NOT USED ON THIS SHEET.

11. NOT USED ON THIS SHEET.

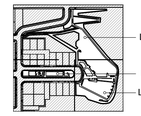
12. PROVIDE PULLBOX FOR FUTURE CONNECTION.

SCALE: 1"=20' 0' 10' 20' 40'

CMG
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Stamp:

REGISTERED PROFESSIONAL ENGINEER — DANIEL GARCIA — No. C74206 — Exp. 12/31/15 — CIVIL — STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

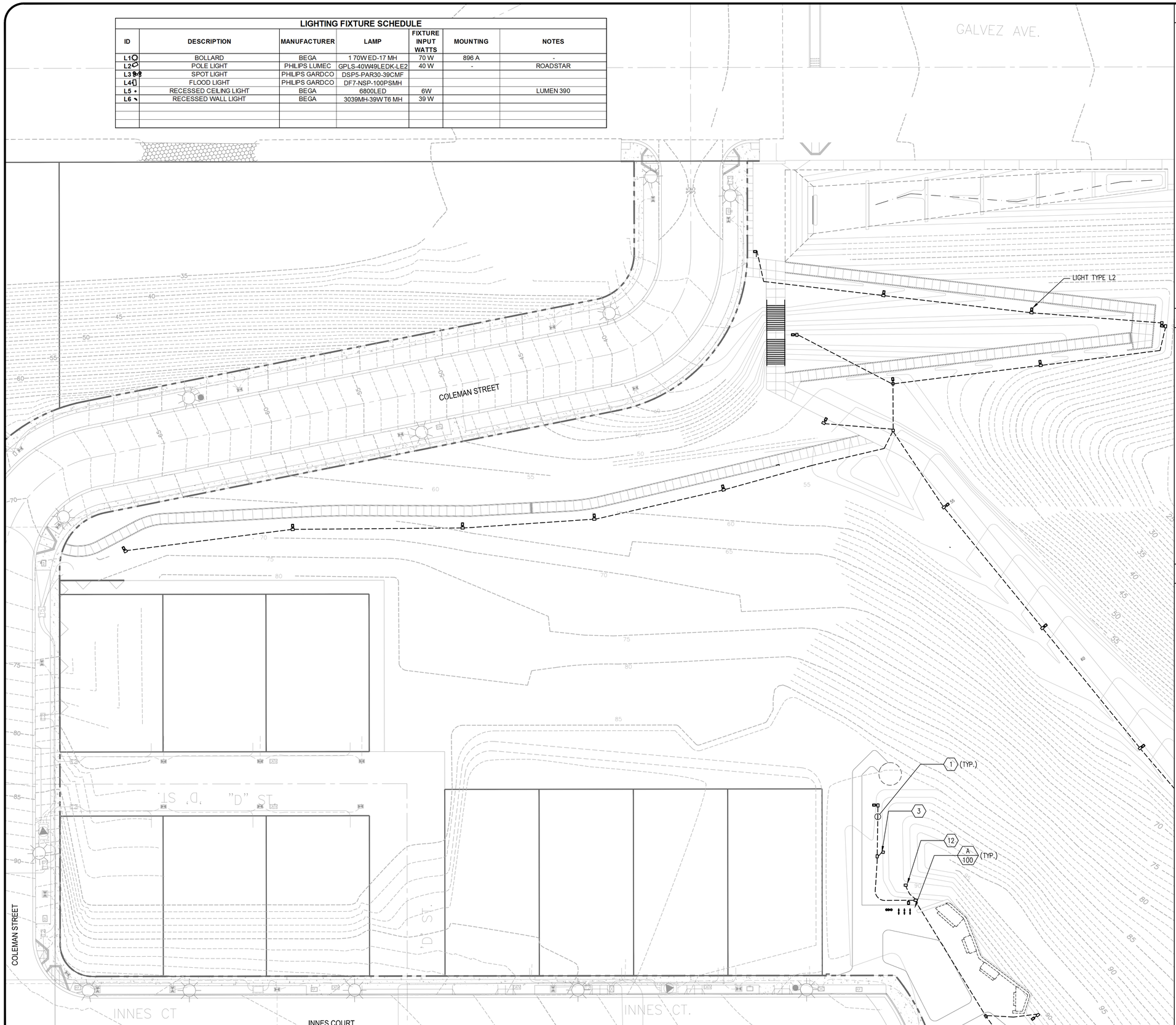
ELECTRICAL LAYOUT
HILLPOINT PLAN

Sheet No:

E1.00

LIGHTING FIXTURE SCHEDULE

ID	DESCRIPTION	MANUFACTURER	LAMP	FIXTURE INPUT WATTS	MOUNTING	NOTES
L1	BOLLARD	BEGA	1 70W ED-17 MH	70 W	896 A	-
L2	POLE LIGHT	PHILIPS LUMEC	GPLS-40W49LEDK-LE2	40 W	-	ROADSTAR
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L4	FLOOD LIGHT	PHILIPS GARDCO	DF7-NSP-100PSMH			
L5	RECESSED CEILING LIGHT	BEGA	6800LED	6W		LUMEN 390
L6	RECESSED WALL LIGHT	BEGA	3039MH-39W T6 MH	39 W		



SCALE: 1"=20' 0' 10' 20' 40'

LEGEND

- NEW POWER PEDESTAL
- UNDERGROUND PULLBOX
- UNDERGROUND CONDUIT
- FIXTURE TYPE DESIGNATION (SEE SCHEDULE) — A / 100 (DENOTES TYPE / DENOTES WATTS)
- IRRIGATION CONTROLLER
- LIGHT BOLLARD
- PEDESTRIAN LIGHT

SHEET NOTES

1. LAYOUT OF LIGHT FIXTURES ON ELECTRICAL DRAWINGS IS DIAGRAMMATIC. SEE LIGHT LAYOUT PLAN, L2.05, FOR LOCATION AND LAYOUT OF LIGHTING FIXTURES.

2. LAYOUT OF LIGHTING PULLBOXES ON ELECTRICAL DRAWINGS IS DIAGRAMMATIC. ALIGN ROTATION OF PULLBOX WITH EDGE OF PAVING.

3. ALL LIGHT FIXTURES MUST BE SUBMITTED TO THE AGENCY FOR PRIOR APPROVAL, PRIOR TO INSTALLATION.

4. LOCATE PULLBOXES IN PLANTING WHERE A SHOULDER IS PROVIDED. WHEN NO SHOULDER IS PROVIDED IN PLANTING AREA, LOCATE PULLBOXES IN ADJACENT PAVING. ALWAYS ALIGN LONG EDGE OF PULLBOXES WITH EDGE OF PAVING.

5. ANY INSTRUCTIONAL BULLETIN TO AMEND THE STREET INFRASTRUCTURE IN ORDER TO PROVIDE POWER TO THIS PARK WILL NEED TO BE SUBMITTED PRIOR TO PERMITTING OF THE PARKS.

KEYNOTES

1. PROVIDE:
   a) 1-1/2"C GRSC, 3#8 AWG, 1#10 AWG FOR PEDESTRIAN LIGHTS.
   b) 1"C GRSC, 2#10 AWG, 1#10 AWG FOR GENERAL RECEPTACLES.
   c)1" GRSC, 2#10 AWG, 1#10 AWG FOR IRRIGATION CONTROLLER.

2. NOT USED ON THIS SHEET.

3. PROVIDE 1-1/2"C GRSC WITH PULL STRING FOR FUTURE CONNECTION.

4. NOT USED ON THIS SHEET.

5. NOT USED ON THIS SHEET.

6. NOT USED ON THIS SHEET.

7. NOT USED ON THIS SHEET.

8. NOT USED ON THIS SHEET.

9. NOT USED ON THIS SHEET.

10. NOT USED ON THIS SHEET.

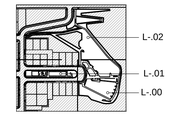
11. NOT USED ON THIS SHEET.

12. PROVIDE PULLBOX FOR FUTURE CONNECTION

CMG
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San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
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12	IB 01	11.10.14
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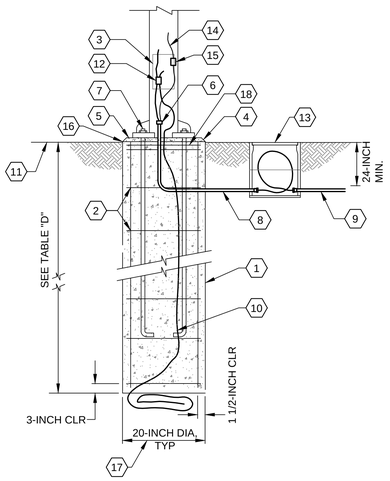
Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
ELECTRICAL LAYOUT
HILLPOINT PLAN

Sheet No:
E1.02

TABLE "D"	
POLE HEIGHT	POLE BASE DEPTH (MIN)
10 FT	60-INCH

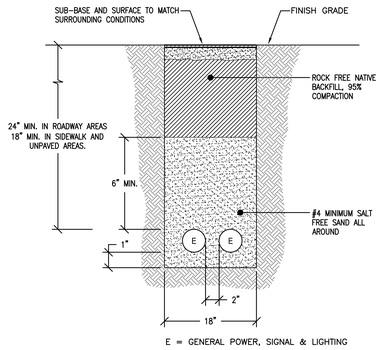


DETAIL NOTES:

1. POURED IN PLACE ROUND CONCRETE SUPPORT BASE.
2. 4- NO. 6 VERTICAL BARS WITH NO. 3 TIES @ 8-INCH O.C.
3. ACCESS HAND-HOLE.
4. 3/4-INCH - 45°CHAMFER ALL AROUND.
5. GROUT IN ALL AROUND BETWEEN BOTTOM OF POLE BASE FOLLOWING POLE ERECTION AND FINAL LEVELING. SEE L6.11 LIGHT DETAILS.
6. STUB CONDUIT UP INTO POLE BASE WIRING CAVITY. (IF RGS TERMINATE WITH GROUNDING BUSHING.)
7. PROVIDE SUPPORT AND LEVELING NUTS ON TOP AND BOTTOM OF POLE BASE MOUNTING PLATE. MOUNTING PLATE AND MOUNTING BOLTS SHALL BE SHALL BE PER MANUFACTURERS BOLT PATTERN, LENGTH SHALL BE PER MANUFACTURERS SPECIFICATIONS.
8. TYPICAL PVC CONDUIT, 3/4-INCH MIN, WITH CONDUCTORS AS INDICATED ON DRAWINGS.
9. TYPICAL INCOMING EXTERIOR BRANCH CIRCUIT CONDUIT AND WIRING FROM U.G. CONDUITS.
10. (1) #4 AWG BARE COPPER GROUND. COIL 30-INCH AT BOTTOM OF FOUNDATION.
11. TOP OF SODDED GRADE, SIDEWALK OR ASHPALT PAVING AS INDICATED ON THE RESPECTIVE AREA SITE PLAN.
12. BOLTED TYPE WIRE GROUND CONNECTOR.
13. REINFORCED, PRECAST GRADE MOUNTED ELECTRICAL BOX, CHRISTY B1017 OR EQUAL. PROVIDE WITH OPEN BOTTOM. ALL SPLICES SHALL BE MADE IN THE PULL BOX AND SHALL BE WATERPROOF, CAST TYPE.
14. WIRING TO LIGHT FIXTURE. CONNECT COMPLETE.
15. WATERPROOF IN-LINE FUSES.
16. TOP OF POLE BASE SHOWN AT GRADE LEVEL. SLAD DETAILS 3, 4, 5 AND 6/L6.11 FOR FOUNDATION DETAIL AT FINISH GRADE AND ADJACENT CONDITIONS. WHERE THERE ARE EXISTING POLE MOUNTED FIXTURES ON THE JOB SITE, INCREASE HEIGHT OF CONCRETE TO MATCH EXISTING. MAINTAIN MINIMUM EMBEDMENT DEPTH.
17. WHERE THERE ARE EXISTING POLE MOUNTED FIXTURES ON THE JOB SITE, MODIFY DIAMETER OF POLE BASE TO MATCH EXISTING. MINIMUM DIAMETER SHALL BE 18-INCH.
18. LATERAL REINFORCEMENT SHALL BE DISTRIBUTED WITHIN 5 INCHES OF THE TOP OF THE COLUMN AND SHALL CONSIST OF 2-NO. 4 OR 3-NO.3 BARS. (PER ACI318-7.10.5.6)

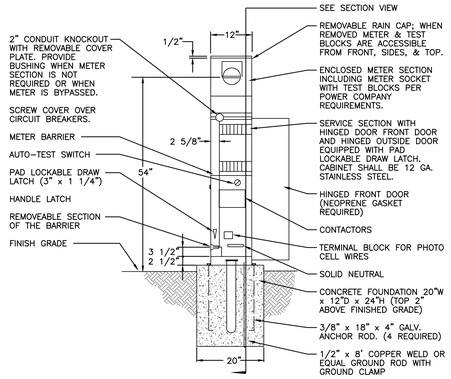
1 LIGHT POLE FOUNDATION
NOT TO SCALE

NOTE:
MAINTAIN A MINIMUM VERTICAL SEPARATION OF 12" WHEN CROSSING SANITARY SEWER LINES. ROUTE CONDUIT EITHER ABOVE OR BELOW OTHER UTILITIES AS NECESSARY TO ACHIEVE THIS SEPARATION WHILE MAINTAINING THE MINIMUM BACKFILL COVERAGE AS SPECIFIED IN THE TRENCH DETAILS, CODE, UTILITY REQUIREMENTS, AND SPECIFICATIONS.

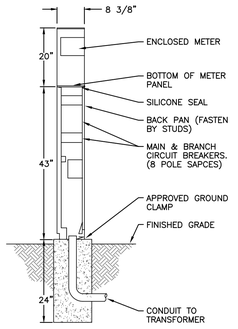


E = GENERAL POWER, SIGNAL & LIGHTING

3 TYPICAL TRENCH SECTION - BRANCH CIRCUITS
NOT TO SCALE



ELEVATION



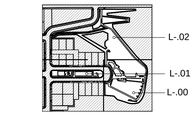
SECTION

4 SERVICE PEDESTAL DETAIL
NOT TO SCALE

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FACSIMILE: 415/495-3080

Stamp:





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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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No:	Revision	Date:
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Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
ELECTRICAL DETAILS

Sheet No:
E5.00

LAYOUT NOTES

1) NOTE KEY ALIGNMENTS BETWEEN EXISTING CONDITIONS AND SITE WORK, AS WELL AS CURBS & GUTTERS AND SITE PATHS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY.

2) SEE CIVIL DRAWINGS FOR CURB AND GUTTER LAYOUT, CURB RAMP LAYOUT AND PARKING. CONFIRM LOCATION OF CURB RAMP OPENINGS PRIOR TO PLACING PATHS.

3) COORDINATES REFER TO P.O.B. AS 0,0 FOR NORTHING AND EASTING. SEE REFERENCE POINT A.

4) SITE ELEMENTS INCLUDE SITE FURNITURE & DRAIN LOCATIONS. POINTS ARE LOCATED ON CENTER OF ELEMENTS.

5) (•) PROPOSED TREES, SEE PLANTING PLANS L4.-- SERIES.

6) FOR LIGHTING LAYOUT, SEE SHEET L2.05.

7) FOR PAVING LAYOUT, SEE SHEETS L2.06–L2.10.

8) FOR LAYOUT, LIGHTING LAYOUT AND PAVING LAYOUT AT OVERLOOK, SEE SHEETS L5.-- SERIES.

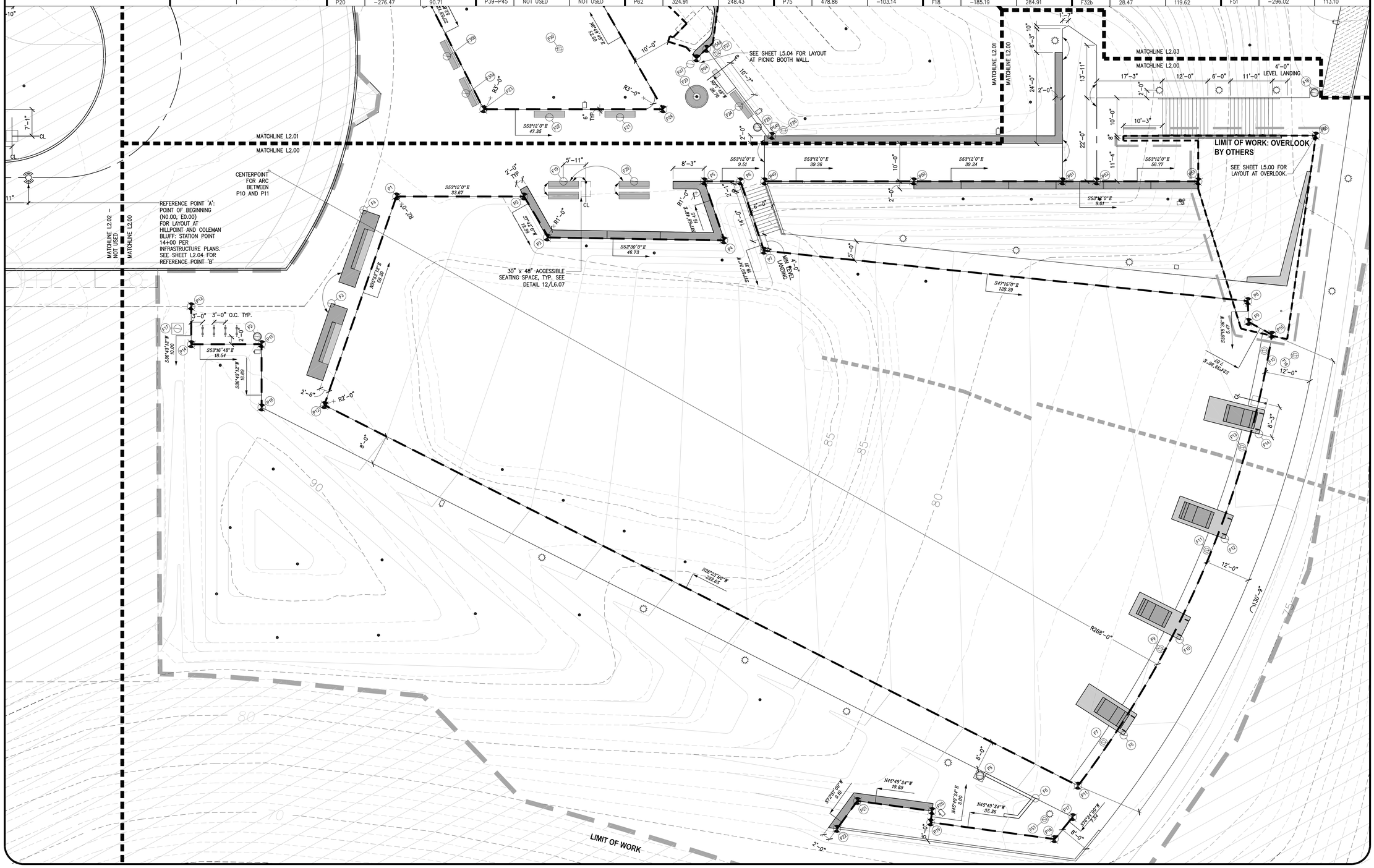
SYMBOLS	DESCRIPTION
	ALIGN
CL	CENTER LINE
	P.O.B. (POINT OF BEGINNING)
10'	ARC LENGTH DIMENSION
+	CENTER POINT OF ARC
P#	CONTROL POINT – PAVING
F#	CONTROL POINT – SITE ELEMENTS (FURNITURE & DRAINS)
N66°16'48"W 65.00	BEARING AND LENGTH
	30" x 48" ACCESSIBLE SEATING SPACE. SEE DETAIL 12/L6.07

POINTS: PAVING

POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
P1	−62.08	74.71	P21	−262.53	76.53	P46	50.80	100.33	P63	283.54	371.98
P2	−82.26	101.65	P22	−265.20	67.83	P47	53.55	92.11	P64	317.60	264.27
P3	−94.55	100.06	P23	−57.44	106.88	P48	58.21	85.86	P65	228.19	418.19
P4	−123.10	136.93	P24	−85.80	144.80	P49	−117.03	154.80	P66	225.16	416.43
P5	−107.52	142.08	P25	−33.67	151.04	P50	−140.60	186.32	P67	219.94	425.42
P6	−113.21	149.70	P26	−9.72	145.16	P51	−164.10	217.74	P68	237.01	440.65
P7	−131.58	143.73	P27	−0.62	141.98	P52	−169.50	224.95	P69	384.90	284.44
P8	−218.67	237.94	P28	35.34	147.23	P53	−185.54	246.38	P69a	426.07	315.16
P9	−223.13	234.78	P29	58.86	126.43	P54	−80.30	159.91	P69b	318.60	451.65
P10	−229.56	237.73	P29a	44.85	115.95	P54a	−79.90	163.51	P69c	290.87	488.72
P11	−294.18	125.52	P30	33.62	122.88	P54b	−108.60	163.57	P69d	281.97	482.05
P12	−94.75	26.51	P31	−5.34	116.04	P55	−194.44	281.18	P69e	304.88	441.38
P13	−52.87	14.01	P32	55.50	148.26	P56	−187.25	285.55	P69f	376.04	317.78
P14	−60.87	8.05	P33	57.71	149.00	P57	−161.41	315.37	P69g	396.05	332.75
P15	−71.98	22.93	P34	75.52	125.04	P58	−137.67	321.71	P70	330.60	133.08
P16	−85.35	12.92	P35	NOT USED	NOT USED	P59a	−61.12	304.80	P71	364.88	82.11
P17	−299.96	119.46	P36	130.82	166.43	P59b	−6.72	297.78	P72	409.27	23.29
P18	−301.74	112.13	P37	131.86	173.84	P60	246.86	287.85	P73	462.54	−55.90
P19	−278.61	88.61	P38	126.76	174.56	P61	267.68	277.34	P74	468.87	−95.19
P20	−276.47	90.71	P39–P45	NOT USED	NOT USED	P62	324.91	248.43	P75	478.86	−103.14

POINTS: SITE ELEMENTS

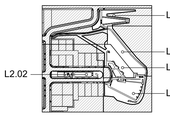
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
F1	NOT USED	NOT USED	F19	−85.28	112.35	F32c	37.20	117.94			
F2	−69.71	23.20	F20	−96.44	127.28	F33	53.86	89.57			
F3	−74.39	44.07	F21	−80.69	134.40	F34	NOT USED	NOT USED			
F4	−59.80	65.59	F22	−69.54	119.49	F35	55.23	154.52			
F5	−276.55	106.42	F23	−88.44	153.87	F36	NOT USED	NOT USED			
F6	−290.08	114.55	F24	−97.18	161.22	F37	135.78	159.87			
F7	−289.05	137.74	F25	−104.48	161.85	F38	−20.32	135.80			
F8	−290.70	143.15	F26	−109.22	166.90	F39	−168.46	307.23			
F9	−278.28	164.52	F27	−82.39	165.01	F40	224.76	423.81			
F10	−279.35	170.07	F28	−48.32	162.10	F41	376.94	278.66			
F11	−264.77	189.86	F29	−22.46	162.35	F42	366.34	293.68			
F12	−265.22	195.51	F30	−56.67	132.39	F43	239.94	270.79			
F13	−248.61	213.60	F30a	−51.28	105.61	F44	262.09	262.89			
F14	−248.46	219.26	F30b	−40.44	107.51	F45	290.85	478.93			
F15	−231.74	233.60	F30c	−22.63	110.82	F46	374.09	273.32			
F16	−237.51	239.31	F30d	−11.80	112.73	F47	−80.55	157.67			
F17	−55.43	7.63	F31	−15.37	136.71	F48	−46.69	156.70			
F18	−185.19	284.91	F32	21.40	139.76	F49	−33.67	163.04			
			F32a	10.33	116.64	F50	56.68	144.52			
			F32b	28.47	119.62	F51	−296.02	113.10			



CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/14
Renewal Date
OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN PARK

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=10'-0"
0' 5' 10' 20'

Sheet Title:

Site Layout Plan - Hillpoint

Sheet No:

L2.00

POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
P1	−62.08	74.71	P21	−262.53	76.53	P46	50.80	100.33	P63	283.54	371.98
P2	−82.26	101.65	P22	−265.20	67.83	P47	53.55	92.11	P64	317.60	264.27
P3	−94.55	100.06	P23	−57.44	106.88	P48	58.21	85.86	P65	228.19	418.19
P4	−123.10	136.93	P24	−85.80	144.80	P49	−117.03	154.80	P66	225.16	416.43
P5	−107.52	142.08	P25	−33.67	151.04	P50	−140.60	186.32	P67	219.94	425.42
P6	−113.21	149.70	P26	−9.72	145.16	P51	−164.10	217.74	P68	237.01	440.65
P7	−131.58	143.73	P27	−0.62	141.98	P52	−169.50	224.95	P69	384.90	284.44
P8	−218.67	237.94	P28	35.34	147.23	P53	−185.54	246.38	P69a	426.07	315.16
P9	−223.13	234.78	P29	58.86	126.43	P54	−80.30	159.91	P69b	318.60	451.65
P10	−229.56	237.73	P29a	44.85	115.95	P54a	−79.90	163.51	P69c	290.87	488.72
P11	−294.18	125.52	P30	33.62	122.88	P54	−108.60	163.57	P69d	281.97	482.05
P12	−94.75	26.51	P31	−5.34	116.04	P55	−194.44	281.18	P69e	304.88	441.38
P13	−52.87	14.01	P32	55.50	148.26	P56	−187.25	285.55	P69f	376.04	317.78
P14	−60.87	8.05	P33	57.71	149.00	P57	−161.41	315.37	P69g	396.05	332.75
P15	−71.98	22.93	P34	75.52	125.04	P58	−137.67	321.71	P70	330.60	133.08
P16	−85.35	12.92	P35	NOT USED	NOT USED	P59a	−61.12	304.80	P71	364.88	82.11
P17	−299.96	119.46	P36	130.82	166.43	P59b	−6.72	297.78	P72	409.27	23.29
P18	−301.74	112.13	P37	131.86	173.84	P60	246.86	287.85	P73	462.54	−55.90
P19	−278.61	88.61	P38	126.76	174.56	P61	267.68	277.34	P74	468.87	−95.19
P20	−276.47	90.71	P39–P45	NOT USED	NOT USED	P62	324.91	248.43	P75	478.86	−103.14

POINTS: SITE ELEMENTS

POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
F1	NOT USED	NOT USED	F19	−85.28	112.35	F32c	37.20	117.94	F50	56.68	144.52
F2	−69.71	23.20	F20	−96.44	127.28	F33	53.86	89.57	F51	−296.02	113.10
F3	−74.39	44.07	F21	−80.69	134.40	F34	NOT USED	NOT USED			
F4	−59.80	65.59	F22	−69.54	119.49	F35	55.23	154.52			
F5	−276.55	106.42	F23	−88.44	153.87	F36	NOT USED	NOT USED			
F6	−290.08	114.55	F24	−97.18	161.22	F37	135.78	159.87			
F7	−289.05	137.74	F25	−104.48	161.85	F38	−20.32	135.80			
F8	−290.70	143.15	F26	−109.22	166.90	F39	−168.46	307.23			
F9	−278.28	164.52	F27	−82.39	165.01	F40	224.76	423.81			
F10	−279.35	170.07	F28	−48.32	162.10	F41	376.94	278.66			
F11	−264.77	189.86	F29	−22.46	162.35	F42	366.34	293.68			
F12	−265.22	195.51	F30	−56.67	132.39	F43	239.94	270.79			
F13	−248.61	213.60	F30a	−51.28	105.61	F44	262.09	262.89			
F14	−248.46	219.26	F30b	−40.44	107.51	F45	290.85	478.93			
F15	−231.74	233.60	F30c	−22.63	110.82	F46	374.09	273.32			
F16	−237.51	239.31	F30d	−11.80	112.73	F47	−80.55	157.67			
F17	−55.43	7.63	F31	−15.37	136.71	F48	−46.69	156.70			
F18	−185.19	284.91	F32	21.40	139.76	F49	−33.67	163.04			
			F32a	10.33	116.64	F50	56.68	144.52			
			F32b	28.47	119.62	F51	−296.02	113.10			

LAYOUT NOTES

1) NOTE KEY ALIGNMENTS BETWEEN EXISTING CONDITIONS AND SITE WORK, AS WELL AS CURBS & GUTTERS AND SITE PATHS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY.

2) SEE CIVIL DRAWINGS FOR CURB AND GUTTER LAYOUT, CURB RAMP LAYOUT AND PARKING. CONFIRM LOCATION OF CURB RAMP OPENINGS PRIOR TO PLACING PATHS.

3) COORDINATES REFER TO P.O.B. AS 0,0 FOR NORTHING AND EASTING. SEE REFERENCE POINT A.

4) SITE ELEMENTS INCLUDE SITE FURNITURE & DRAIN LOCATIONS. POINTS ARE LOCATED ON CENTER OF ELEMENTS.

5) ( ) PROPOSED TREES, SEE PLANTING PLANS L4.-- SERIES.

6) FOR LIGHTING LAYOUT, SEE SHEET L2.05.

7) FOR PAVING LAYOUT, SEE SHEETS L2.06–L2.10.

8) FOR LAYOUT, LIGHTING LAYOUT AND PAVING LAYOUT AT OVERLOOK, SEE SHEETS L5.-- SERIES.

SYMBOL	DESCRIPTION
	ALIGN
	CENTER LINE
	P.O.B. (POINT OF BEGINNING)
10'	ARC LENGTH DIMENSION
+	CENTER POINT OF ARC
P#	CONTROL POINT – PAVING
F#	CONTROL POINT – SITE ELEMENTS (FURNITURE & DRAINS)
N66°16'48"W 65.00	BEARING AND LENGTH
	30" x 48" ACCESSIBLE SEATING SPACE. SEE DETAIL 12/L6.07

MATCHLINE L2.04
MATCHLINE L2.01
LIMIT OF WORK
MATCHLINE L2.01
MATCHLINE L2.02 – NOT USED
MATCHLINE L2.02 – NOT USED
MATCHLINE L2.01
MATCHLINE L2.01
MATCHLINE L2.00
MATCHLINE L2.03
MATCHLINE L2.01
MATCHLINE L2.00
ALIGN END OF SEATWALL WITH TANGENT AT PAVING.
EXTENT OF 18" PAVING BAND: END AT TANGENT.
SEE SHEET L5.04 FOR LAYOUT AT PICNIC BOOTH WALL.
LIMIT OF WORK BY OTHERS
7'-0" PATH
R2'-0"
S89°00'00"E 49.19
R3'-0"
N89°00'00"W 49.19
N58°48'38"E 69.08
61'-7"
5'-0"
5'-0"
N53°20'24"W 89.82
N53°20'24"W 2.13
13'-1"
2'-6"
3'-1" TYP.
3'-5" 3'-0" O.C. TYP
N41°30'00"W 91.99
S58°47'60"W 17.49
N52°16'48"W 7.80
S33°41'60"E 13.30
N71°30'36"W 8.66
R8'-0"
8'-2"
N8°48'07"E 38.34
N18°12'24"W 9.64
8'-6"
7'-3"
N81°27'36"W 29.45
N37°47'36"W 9.44
10'-0"
N82°48'24"E 52.69
S53°12'0"E 47.35
5'-4"
5'-11"
10'-7"
N82°48'24"E 39.10
S53°12'0"E 3.51
S53°12'0"E 59.35
S53°12'0"E 39.24
S53°12'0"E 56.27
6'-3" 10"
2'-0"
24'-0"
13'-11"
17'-3"
12'-0"
6'-0"
10'-0"
10'-3"
22'-0"
8"
1'-4"
1'-11"
18'-3"
11'-9"
3'-10"
13'-4"
6'-0"
7'-9"
7'-1"
8'-7"
CL
5'-11"
8'-3"

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:
LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/14
Renewal Date
OF CALIFORNIA

L2.04
L2.03
L2.02
L2.01
L2.00

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN PARK

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=10'-0"
0' 5' 10' 20'

Sheet Title:
Site Layout Plan - Hillpoint

Sheet No:
L2.01

LAYOUT NOTES

1) NOTE KEY ALIGNMENTS BETWEEN EXISTING CONDITIONS AND SITE WORK, AS WELL AS CURBS & GUTTERS AND SITE PATHS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY.

2) SEE CIVIL DRAWINGS FOR CURB AND GUTTER LAYOUT, CURB RAMP LAYOUT AND PARKING. CONFIRM LOCATION OF CURB RAMP OPENINGS PRIOR TO PLACING PATHS.

3) COORDINATES REFER TO P.O.B. AS 0,0 FOR NORTHING AND EASTING. SEE REFERENCE POINT A.

4) SITE ELEMENTS INCLUDE SITE FURNITURE & DRAIN LOCATIONS. POINTS ARE LOCATED ON CENTER OF ELEMENTS.

5) (•) PROPOSED TREES, SEE PLANTING PLANS L4.-- SERIES.

6) FOR LIGHTING LAYOUT, SEE SHEET L2.05.

7) FOR PAVING LAYOUT, SEE SHEETS L2.06–L2.10.

8) FOR LAYOUT, LIGHTING LAYOUT AND PAVING LAYOUT AT OVERLOOK, SEE SHEETS L5.-- SERIES.

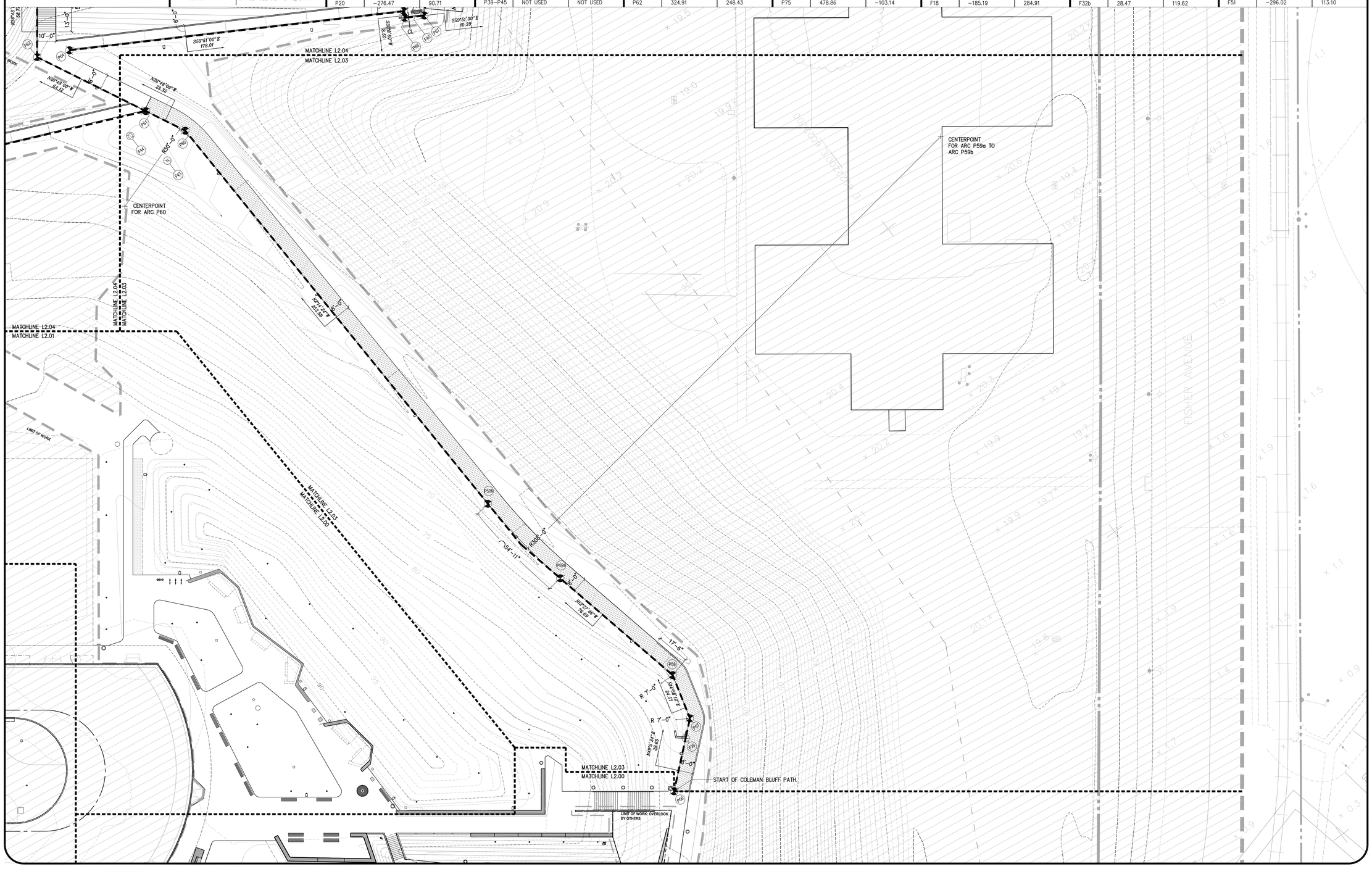
SYMBOLS	DESCRIPTION
	ALIGN
	CENTER LINE
	P.O.B. (POINT OF BEGINNING)
10'	ARC LENGTH DIMENSION
	CENTER POINT OF ARC
P#	CONTROL POINT – PAVING
F#	CONTROL POINT – SITE ELEMENTS (FURNITURE & DRAINS)
N66°16'48"W 65.00	BEARING AND LENGTH
	30" x 48" ACCESSIBLE SEATING SPACE. SEE DETAIL 12/L6.07

POINTS: PAVING

POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
P1	−62.08	74.71	P21	−262.53	76.53	P46	50.80	100.33	P63	283.54	371.98
P2	−82.26	101.65	P22	−265.20	67.83	P47	53.55	92.11	P64	317.60	264.27
P3	−94.55	100.06	P23	−57.44	106.88	P48	58.21	85.86	P65	228.19	418.19
P4	−123.10	136.93	P24	−85.80	144.80	P49	−117.03	154.80	P66	225.16	416.43
P5	−107.52	142.08	P25	−33.67	151.04	P50	−140.60	186.32	P67	219.94	425.42
P6	−113.21	149.70	P26	−9.72	145.16	P51	−164.10	217.74	P68	237.01	440.65
P7	−131.58	143.73	P27	−0.62	141.98	P52	−169.50	224.95	P69	384.90	284.44
P8	−218.67	237.94	P28	35.34	147.23	P53	−185.54	246.38	P69a	426.07	315.16
P9	−223.13	234.78	P29	58.86	126.43	P54	−80.30	159.91	P69b	318.60	451.65
P10	−229.56	237.73	P29a	44.85	115.95	P54a	−79.90	163.51	P69c	290.87	488.72
P11	−294.18	125.52	P30	33.62	122.88	P54b	−108.60	163.57	P69d	281.97	482.05
P12	−94.75	26.51	P31	−5.34	116.04	P55	−194.44	281.18	P69e	304.88	441.38
P13	−52.87	14.01	P32	55.50	148.26	P56	−187.25	285.55	P69f	376.04	317.78
P14	−60.87	8.05	P33	57.71	149.00	P57	−161.41	315.37	P69g	396.05	332.75
P15	−71.98	22.93	P34	75.52	125.04	P58	−137.67	321.71	P70	330.60	133.08
P16	−85.35	12.92	P35	NOT USED	NOT USED	P59a	−61.12	304.80	P71	364.88	82.11
P17	−299.96	119.46	P36	130.82	166.43	P59b	−6.72	297.78	P72	409.27	23.29
P18	−301.74	112.13	P37	131.86	173.84	P60	246.86	287.85	P73	462.54	−55.90
P19	−278.61	88.61	P38	126.76	174.56	P61	267.68	277.34	P74	468.87	−95.19
P20	−276.47	90.71	P39–P45	NOT USED	NOT USED	P62	324.91	248.43	P75	478.86	−103.14

POINTS: SITE ELEMENTS

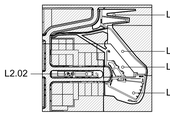
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
F1	NOT USED	NOT USED	F19	−85.28	112.35	F32c	37.20	117.94
F2	−69.71	23.20	F20	−96.44	127.28	F33	53.86	89.57
F3	−74.39	44.07	F21	−80.69	134.40	F34	NOT USED	NOT USED
F4	−59.80	65.59	F22	−69.54	119.49	F35	55.23	154.52
F5	−276.55	106.42	F23	−88.44	153.87	F36	NOT USED	NOT USED
F6	−290.08	114.55	F24	−97.18	161.22	F37	135.78	159.87
F7	−289.05	137.74	F25	−104.48	161.85	F38	−20.32	135.80
F8	−290.70	143.15	F26	−109.22	166.90	F39	−168.46	307.23
F9	−278.28	164.52	F27	−82.39	165.01	F40	224.76	423.81
F10	−279.35	170.07	F28	−48.32	162.10	F41	376.94	278.66
F11	−264.77	189.86	F29	−22.46	162.35	F42	366.34	293.68
F12	−265.22	195.51	F30	−56.67	132.39	F43	239.94	270.79
F13	−248.61	213.60	F30a	−51.28	105.61	F44	262.09	262.89
F14	−248.46	219.26	F30b	−40.44	107.51	F45	290.85	478.93
F15	−231.74	233.60	F30c	−22.63	110.82	F46	374.09	273.32
F16	−237.51	239.31	F30d	−11.80	112.73	F47	−80.55	157.67
F17	−55.43	7.63	F31	−15.37	136.71	F48	−46.69	156.70
F18	−185.19	284.91	F32	21.40	139.76	F49	−33.67	163.04
			F32a	10.33	116.64	F50	56.68	144.52
			F32b	28.47	119.62	F51	−296.02	113.10



CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Date
Renewal Date
11/30/2014
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN PARK

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=20'-0"
0' 10' 20' 40'
N

Sheet Title:

Site Layout Plan - Coleman Bluff

Sheet No:

L2.03

LAYOUT NOTES

1) NOTE KEY ALIGNMENTS BETWEEN EXISTING CONDITIONS AND SITE WORK, AS WELL AS CURBS & GUTTERS AND SITE PATHS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCY.

2) SEE CIVIL DRAWINGS FOR CURB AND GUTTER LAYOUT, CURB RAMP LAYOUT AND PARKING. CONFIRM LOCATION OF CURB RAMP OPENINGS PRIOR TO PLACING PATHS.

3) COORDINATES REFER TO P.O.B. AS 0,0 FOR NORTHING AND EASTING. SEE REFERENCE POINT A.

4) SITE ELEMENTS INCLUDE SITE FURNITURE & DRAIN LOCATIONS. POINTS ARE LOCATED ON CENTER OF ELEMENTS.

5) (+) PROPOSED TREES, SEE PLANTING PLANS L4.-- SERIES.

6) FOR LIGHTING LAYOUT, SEE SHEET L2.05.

7) FOR PAVING LAYOUT, SEE SHEETS L2.06–L2.10.

8) FOR LAYOUT, LIGHTING LAYOUT AND PAVING LAYOUT AT OVERLOOK, SEE SHEETS L5.-- SERIES.

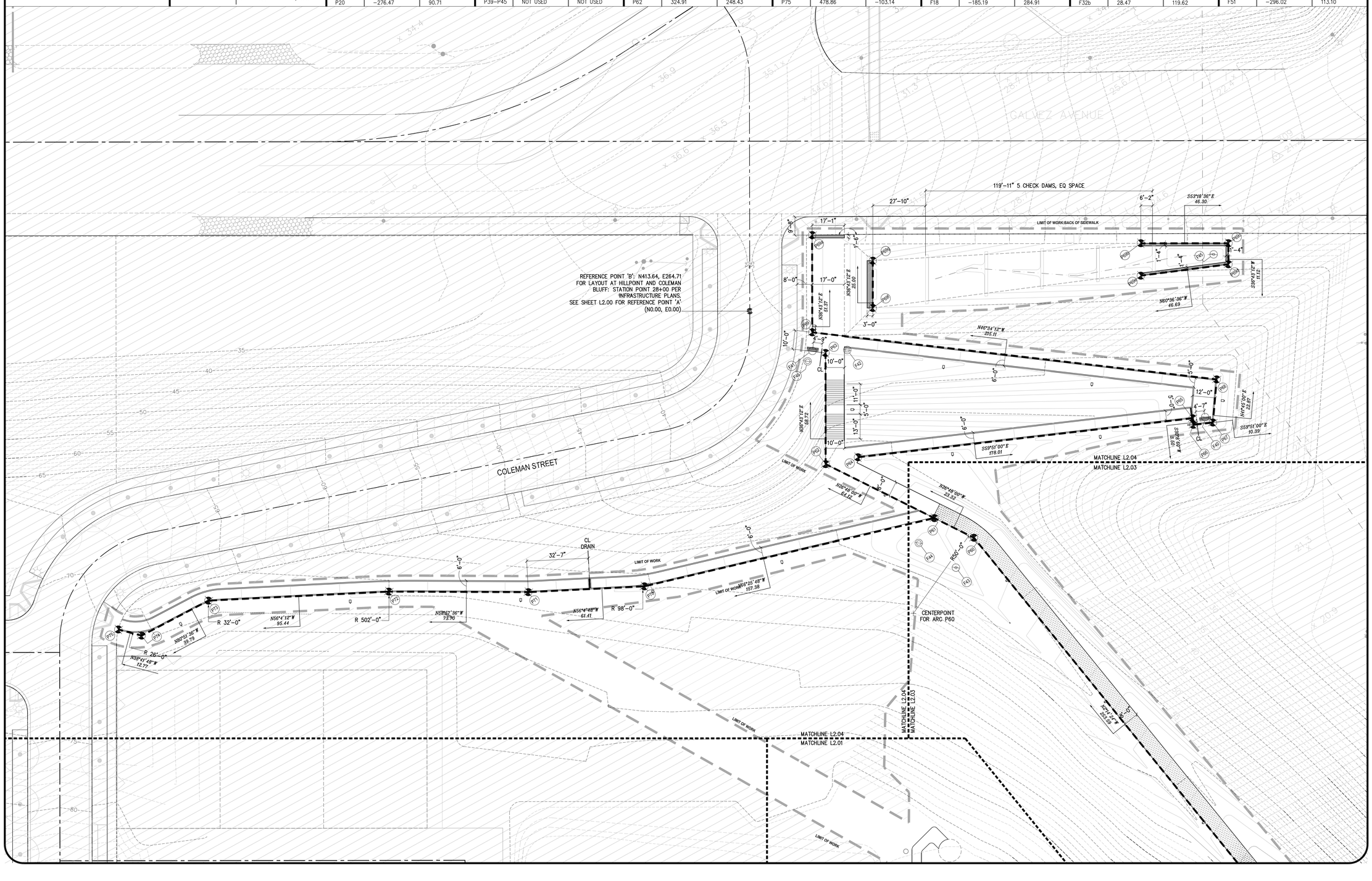
SYMBOLS	DESCRIPTION
	ALIGN
℄ — — — —	CENTER LINE
	P.O.B. (POINT OF BEGINNING)
10'	ARC LENGTH DIMENSION
+	CENTER POINT OF ARC
P#	CONTROL POINT – PAVING
F#	CONTROL POINT – SITE ELEMENTS (FURNITURE & DRAINS)
N66°16'48"W 65.00	BEARING AND LENGTH
	30" x 48" ACCESSIBLE SEATING SPACE. SEE DETAIL 12/L6.07

POINTS: PAVING

POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
P1	–62.08	74.71	P21	–262.53	76.53	P46	50.80	100.33	P63	283.54	371.98
P2	–82.26	101.65	P22	–265.20	67.83	P47	53.55	92.11	P64	317.60	264.27
P3	–94.55	100.06	P23	–57.44	106.88	P48	58.21	85.86	P65	228.19	418.19
P4	–123.10	136.93	P24	–85.80	144.80	P49	–117.03	154.80	P66	225.16	416.43
P5	–107.52	142.08	P25	–33.67	151.04	P50	–140.60	186.32	P67	219.94	425.42
P6	–113.21	149.70	P26	–9.72	145.16	P51	–164.10	217.74	P68	237.01	440.65
P7	–131.58	143.73	P27	–0.62	141.98	P52	–169.50	224.95	P69	384.90	284.44
P8	–218.67	237.94	P28	35.34	147.23	P53	–185.54	246.38	P69a	426.07	315.16
P9	–223.13	234.78	P29	58.86	126.43	P54	–80.30	159.91	P69b	318.60	451.65
P10	–229.56	237.73	P29a	44.85	115.95	P54a	–79.90	163.51	P69c	290.87	488.72
P11	–294.18	125.52	P30	33.62	122.88	P54b	–108.60	163.57	P69d	281.97	482.05
P12	–94.75	26.51	P31	–5.34	116.04	P55	–194.44	281.18	P69e	304.88	441.38
P13	–52.87	14.01	P32	55.50	148.26	P56	–187.25	285.55	P69f	376.04	317.78
P14	–60.87	8.05	P33	57.71	149.00	P57	–161.41	315.37	P69g	396.05	332.75
P15	–71.98	22.93	P34	75.52	125.04	P58	–137.67	321.71	P70	330.60	133.08
P16	–85.35	12.92	P35	NOT USED	NOT USED	P59a	–61.12	304.80	P71	364.88	82.11
P17	–299.96	119.46	P36	130.82	166.43	P59b	–6.72	297.78	P72	409.27	23.29
P18	–301.74	112.13	P37	131.86	173.84	P60	246.86	287.85	P73	462.54	–55.90
P19	–278.61	88.61	P38	126.76	174.56	P61	267.68	277.34	P74	468.87	–95.19
P20	–276.47	90.71	P39–P45	NOT USED	NOT USED	P62	324.91	248.43	P75	478.86	–103.14

POINTS: SITE ELEMENTS

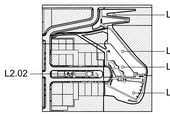
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
F1	NOT USED	NOT USED	F19	–85.28	112.35	F32c	37.20	117.94
F2	–69.71	23.20	F20	–96.44	127.28	F33	53.86	89.57
F3	–74.39	44.07	F21	–80.69	134.40	F34	NOT USED	NOT USED
F4	–59.80	65.59	F22	–69.54	119.49	F35	55.23	154.52
F5	–276.55	106.42	F23	–88.44	153.87	F36	NOT USED	NOT USED
F6	–290.08	114.55	F24	–97.18	161.22	F37	135.78	159.87
F7	–289.05	137.74	F25	–104.48	161.85	F38	–20.32	135.80
F8	–290.70	143.15	F26	–109.22	166.90	F39	–168.46	307.23
F9	–278.28	164.52	F27	–82.39	165.01	F40	224.76	423.81
F10	–279.35	170.07	F28	–48.32	162.10	F41	376.94	278.66
F11	–264.77	189.86	F29	–22.46	162.35	F42	366.34	293.68
F12	–265.22	195.51	F30	–56.67	132.39	F43	239.94	270.79
F13	–248.61	213.60	F30a	–51.28	105.61	F44	262.09	262.89
F14	–248.46	219.26	F30b	–40.44	107.51	F45	290.85	478.93
F15	–231.74	233.60	F30c	–22.63	110.82	F46	374.09	273.32
F16	–237.51	239.31	F30d	–11.80	112.73	F47	–80.55	157.67
F17	–55.43	7.63	F31	–15.37	136.71	F48	–46.69	156.70
F18	–185.19	284.91	F32	21.40	139.76	F49	–33.67	163.04
			F32a	10.33	116.64	F50	56.68	144.52
			F32b	28.47	119.62	F51	–296.02	113.10



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TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Date
Renewal Date
11/30/2015
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN PARK

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
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13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
△		
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△		
△		
△		
△		

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=20'-0"
0' 10' 20' 40'
N

Sheet Title:

Site Layout Plan - Coleman Bluff

Sheet No:

L2.04

LIGHT LAYOUT NOTES

1) FOR BASE MOUNTING DETAILS, PAVING CONDITIONS AT LIGHT FIXTURE BASES AND FIXTURE FOOTING DETAILS, SEE SHEET L6.11.

2) FOR LIGHTS OCCURRING AT/IN OVERLOOK, SEE OVERLOOK SHEETS L5.--.

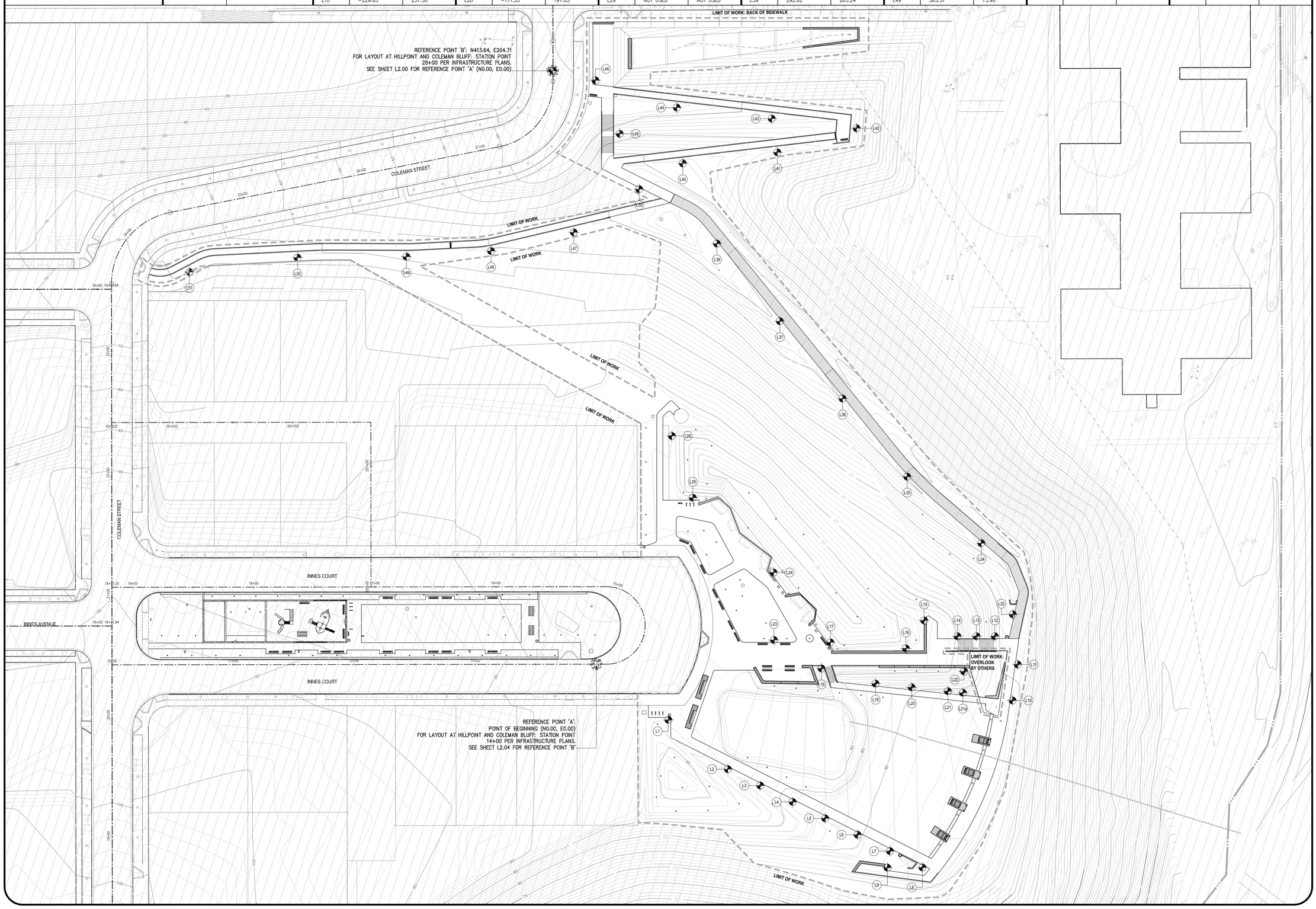
3) COORDINATE ALL CONDUIT LOCATIONS IN WALLS AND CONCRETE PAVING WITH FIXTURE LOCATIONS.

4) LOCATE PULLBOXES IN PLANTING WHERE A SHOULDER IS PROVIDED. WHEN NO SHOULDER IS PROVIDED IN PLANTING AREA, LOCATE PULL BOX IN ADJACENT PAVING. ALWAYS ALIGN ROTATION OF PULLBOX WITH EDGE OF PAVING.

SYMBOLS	DESCRIPTION
	P.O.B. (POINT OF BEGINNING)
P#	CONTROL POINT – LIGHT

POINTS: LIGHTS

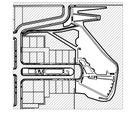
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
L1	72.38	20.10	L11	−208.62	278.50	L21	−191.70	219.08	L30	NOT USED	NOT USED	L40	288.28	304.80	L50	416.60	3.38			
L2	−134.42	35.05	L12	−178.62	277.33	L21a	−200.18	228.26	L31	NOT USED	NOT USED	L41	248.79	372.78	L51	460.59	−75.14			
L3	−161.295	48.38	L13	−169.57	265.20	L22	−186.73	239.56	L32	NOT USED	NOT USED	L42	225.53	437.10						
L4	−188.17	61.72	L14	−160.16	252.58	L23	−71.80	129.41	L33	−173.05	300.03	L43	273.84	385.75						
L5	−215.04	75.06	L15	−133.19	238.37	L24	−27.06	162.53	L34	−110.43	314.41	L44	328.09	328.44						
L6	−241.91	88.40	L16	−142.72	212.51	L25	62.34	146.10	L35	−29.81	298.30	L45	339.04	277.69						
L7	−268.78	101.74	L17	−101.37	165.56	L26	113.57	162.76	L36	53.73	294.16	L46	386.40	288.06						
L8	−295.65	115.08	L18	−114.14	146.77	L27	NOT USED	NOT USED	L37	135.91	290.95	L47	296.58	198.59						
L9	−278.39	91.85	L19	−150.97	175.02	L28	NOT USED	NOT USED	L38	218.33	287.72	L48	325.19	134.67						
L10	−229.85	257.30	L20	−171.33	197.05	L29	NOT USED	NOT USED	L39	292.82	263.24	L49	363.31	75.90						



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TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Date
Renewal Date
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN PARK

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
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12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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△		
△		
△		
△		
△		

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=30'-0"
0' 15' 30' 60'
N

Sheet Title:

Site Lighting Layout Plan

Sheet No:

L2.05

PAVE LAYOUT NOTES

1) FOR PAVING TYPES, SEE SITE PLANS, SHEET SERIES L1.--, FOR EDGE OF PAVING DIMENSIONS, SEE LAYOUT PLANS, SHEET SERIES L2.00-I2.04.

2) WHERE JOINTS OCCUR AT RADIUS/END OF TANGENT:
- -ALIGN TO CENTERLINE OF RADIUS AS SHOWN.
- -ALIGN TO END OF TANGENT AS SHOWN.

3) JOINTS ARE ALIGNED AND DIMENSIONED TO GRADE BREAKS.

PAVE LAYOUT

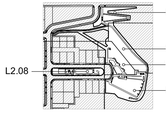
TAG	SYM	DESCRIPTION
CJ		Control Joint, Detail 1/L6.00
EJ		Expansion Joint, Detail 2/L6.00
		Perpendicular
		Center Line
		Align

BEGIN JOINT AT CURVE TANGENT.
BEGIN JOINT AT END OF TANGENT.
BEGIN JOINT AT CENTERLINE OF RADIUS. EXTEND TO INTERSECT WITH JOINT RUNNING VERTICALLY.
END JOINT PERPENDICULAR TO PLANTING AREA
BACK OF SIDEWALK ROW
R6' ALIGN WITH WALL.
MATCHLINE L2.07 – NOT USED
MATCHLINE L2.08 – NOT USED
MATCHLINE L2.09 – NOT USED
LIMIT OF WORK: OVERLOOK BY OTHERS
LIMIT OF WORK
BEGIN JOINT AT END OF WALL
NOTE: JOINTS ARE AN OFFSET OF THE EDGE OF PAVING AND SHOULD FOLLOW RADIUS.

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Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/14
Renewal Date
OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
INNES COURT PARK

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

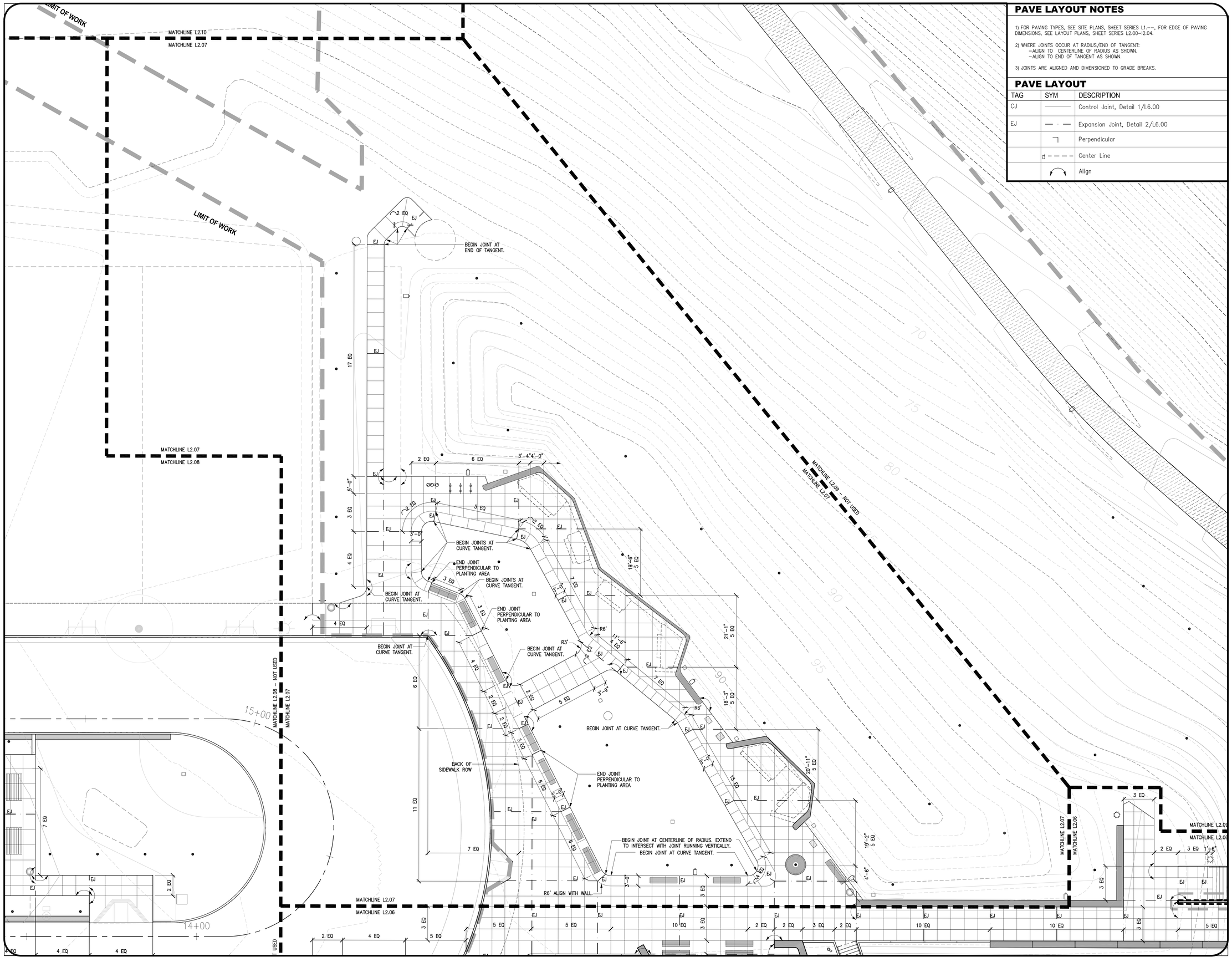
SCALE: 1"=10'-0"
0' 5' 10' 20'

Sheet Title:

Paving Layout Plan - Hillpoint

Sheet No:

L2.06



PAVE LAYOUT NOTES

1) FOR PAVING TYPES, SEE SITE PLANS, SHEET SERIES L1.--, FOR EDGE OF PAVING DIMENSIONS, SEE LAYOUT PLANS, SHEET SERIES L2.00–I2.04.

2) WHERE JOINTS OCCUR AT RADIUS/END OF TANGENT:
   –ALIGN TO CENTERLINE OF RADIUS AS SHOWN.
   –ALIGN TO END OF TANGENT AS SHOWN.

3) JOINTS ARE ALIGNED AND DIMENSIONED TO GRADE BREAKS.

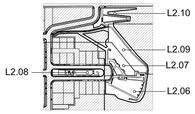
PAVE LAYOUT

TAG	SYM	DESCRIPTION
CJ	———	Control Joint, Detail 1/L6.00
EJ	— · —	Expansion Joint, Detail 2/L6.00
	⌐	Perpendicular
	℄	Center Line
	⌒	Align

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TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/14
Renewal Date
Date
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
INNES COURT PARK

No:	Issue	Date:
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13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
△		
△		
△		
△		
△		
△		

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=10'-0"
0' 5' 10' 20'

Sheet Title:

Paving Layout Plan - Hillpoint

Sheet No:

L2.07

PAVE LAYOUT NOTES

1) FOR PAVING TYPES, SEE SITE PLANS, SHEET SERIES L1.--, FOR EDGE OF PAVING DIMENSIONS, SEE LAYOUT PLANS, SHEET SERIES L2.00-I2.04.

2) WHERE JOINTS OCCUR AT RADIUS/END OF TANGENT:
   -ALIGN TO CENTERLINE OF RADIUS AS SHOWN.
   -ALIGN TO END OF TANGENT AS SHOWN.

3) JOINTS ARE ALIGNED AND DIMENSIONED TO GRADE BREAKS.

PAVE LAYOUT

TAG	SYM	DESCRIPTION
CJ		Control Joint, Detail 1/L6.00
EJ		Expansion Joint, Detail 2/L6.00
		Perpendicular
	CL	Center Line
		Align

LIMIT OF WORK: BACK OF SIDEWALK

MATCHLINE L2.10
MATCHLINE L2.09 – NOT USED

LIMIT OF WORK

MATCHLINE L2.10
MATCHLINE L2.07

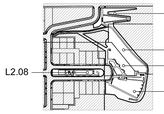
COLEMAN STREET

GALVEZ AVENUE

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
INNES COURT PARK

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9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

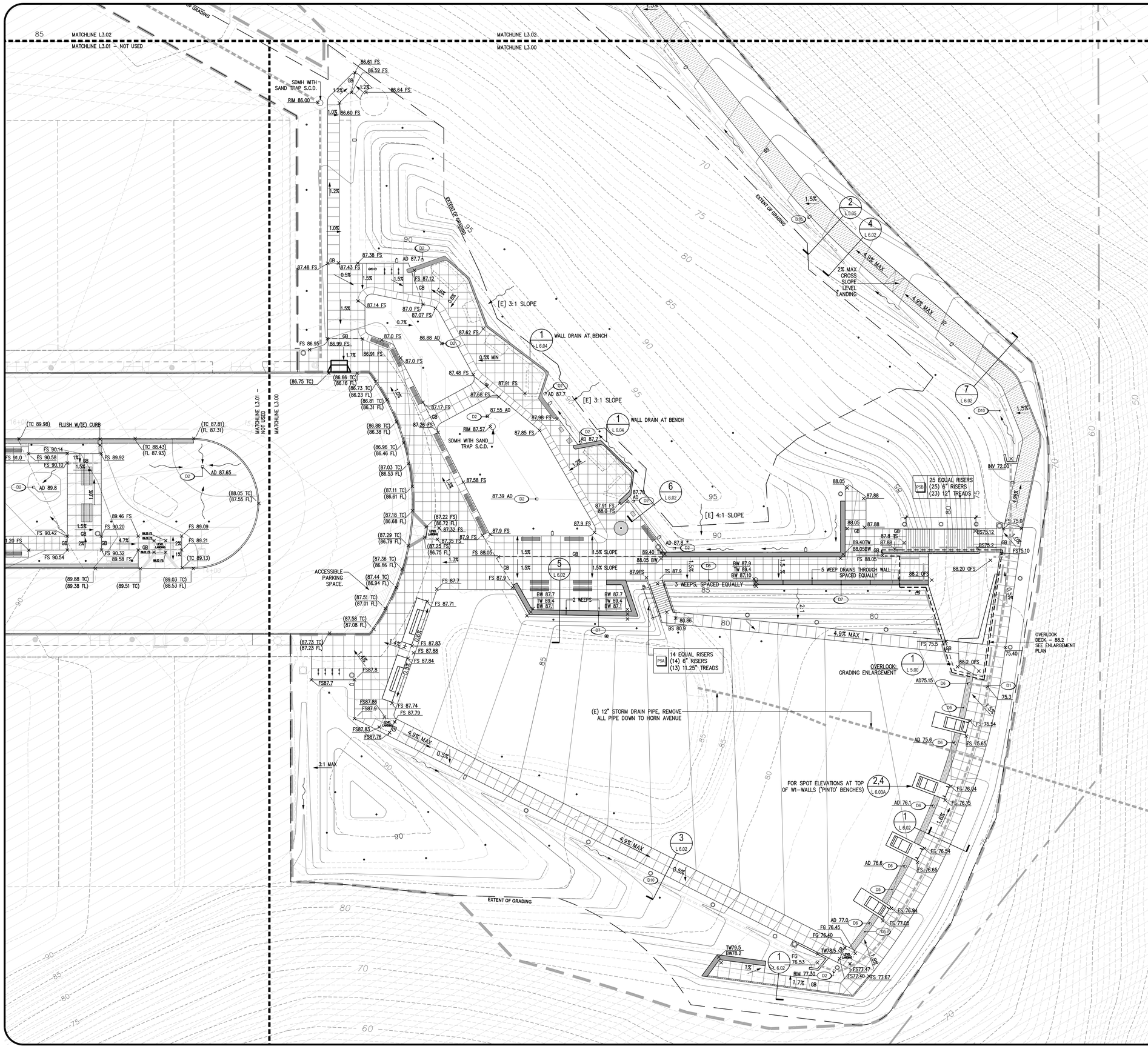
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Sheet Title:

Paving Layout Plan - Coleman Bluff

Sheet No:

L2.10



GRADING LEGEND

20.15	PROPOSED SPOT ELEVATION
(20.15)	EXISTING SPOT ELEVATION
GB	GRADEBREAK
	SLOPE THROUGH PLANTING AREAS
2%	SLOPE, SEE GRADING NOTE 7
70	EXISTING CONTOUR
70	PROPOSED CONTOUR
(•)	PROPOSED TREES, SEE PLANTING PLAN
AD	AREA DRAIN
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
BSW	BACK OF SIDEWALK
FG	FINISHED GRADE
FL	FLOW LINE
FS	FINISHED SURFACE (AT PAVING)
GB	GRADE BREAK
HP	HIGH POINT
IE	INVERT ELEVATION
LP	LOW POINT
OFS	OVERLOOK FINISH SURFACE
RIM	RIM ELEVATION
TC	TOP OF CURB
TW	TOP OF WALL
TS	TOP OF STAIRS

DRAINS

D1 / AD □	DESCRIPTION: AREA DRAIN IN PAVING DETAIL: 1/L6.01
D2 / AD □	DESCRIPTION: AREA DRAIN IN PLANTING DETAIL: 2/L6.01
D3 / AD ⊕	DESCRIPTION: AREA DRAIN AT OVERLOOK DETAIL: 3/L6.01
D4	DESCRIPTION: TRENCH DRAIN DETAIL: 4/L6.01
D5	DESCRIPTION: COBBLE BAND & LAWN SUBDRAIN DETAIL: 3/L6.00
D6	DESCRIPTION: AREA DRAIN AT COBBLE BAND DETAIL: 5/L6.01
D7	DESCRIPTION: WEEP THROUGH C.I.P. CONCRETE WALL DETAIL: 6/L6.01
D8	DESCRIPTION: WEEP THROUGH C.I.P. CONCRETE CURB DETAIL: 7/L6.01
D9	DESCRIPTION: SUBDRAIN AT RUBBER SAFETY SURFACE DETAIL: 8/L6.01
D10	DESCRIPTION: VEGETATED DITCH DETAIL: SEE C1.00 – C1.02
D11 / AD □	DESCRIPTION: OVERFLOW DRAIN AT VEGETATED SWALE SEE CIVIL DETAILS

DRAINAGE AND UTILITY NOTES

FOR INFORMATION ON MASS GRADING, STREET CURB LAYOUT, UTILITY CONNECTIONS AND ELECTRICAL SERVICE SEE REFERENCED DRAWINGS :

1. HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT PARCEL A' – "GRADING AND RETAINING WALLS"
2. HUNTERS POINT SHIPYARD DEVELOPMENT PROJECT PARCEL A' – "INFRASTRUCTURE"

FOR PARK DRAINAGE SEE CIVIL DRAWINGS–C1.00 SERIES.

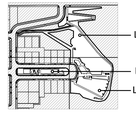
GRADING NOTES

1. PROVIDE ALL GRADES FOR NATURAL RUNOFF OF WATER WITHOUT LOW SPOTS OR POCKETS. ACCURATELY SET FLOW LINE GRADES AT 2 PERCENT MINIMUM GRADIENT UNLESS OTHERWISE NOTED IN DRAWINGS.
2. FINISH GRADES SHALL BE SMOOTH, EVEN AND ON A UNIFORM PLANE WITH NO ABRUPT CHANGES OF SURFACE. SLOPE UNIFORMLY BETWEEN GIVEN SPOT ELEVATIONS.
3. GRADES NOT OTHERWISE INDICATED SHALL BE UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE GIVEN, OR BETWEEN POINTS ESTABLISHED BY WALKS, PAVING, CURBS OR AREA DRAINS.
4. 3:1 AND 2:1 CONTOURED SLOPES SHALL BE EVEN UNIFORM PLANES PER THE DRAWINGS.
5. TOPS AND TOES OF ALL SLOPES SHALL BE GRADED TO A SHARP AND EVEN TRANSITION BETWEEN RELATIVELY LEVEL AREAS AND SLOPES UNLESS OTHERWISE NOTED IN THE DRAWINGS.
6. EROSION CONTROL FABRIC REQUIRED AT SLOPES GREATER THAN 3:1.
7. SLOPE PERCENTAGES INDICATED ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CODE COMPLIANT MINIMUM AND MAXIMUM SLOPES.
8. SLOPES AT TOP AND BOTTOM OF STAIRS & RAMPS, AND AT ALL LANDING THRESHOLDS SHALL NOT EXCEED 2% IN ANY DIRECTION.
9. PATHWAY INTERSECTION SLOPES SHALL NOT EXCEED 2% IN ANY DIRECTION.

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SAN FRANCISCO, CA 94107
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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/14
Renewal Date
Date
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
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No:	Revision	Date:
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Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

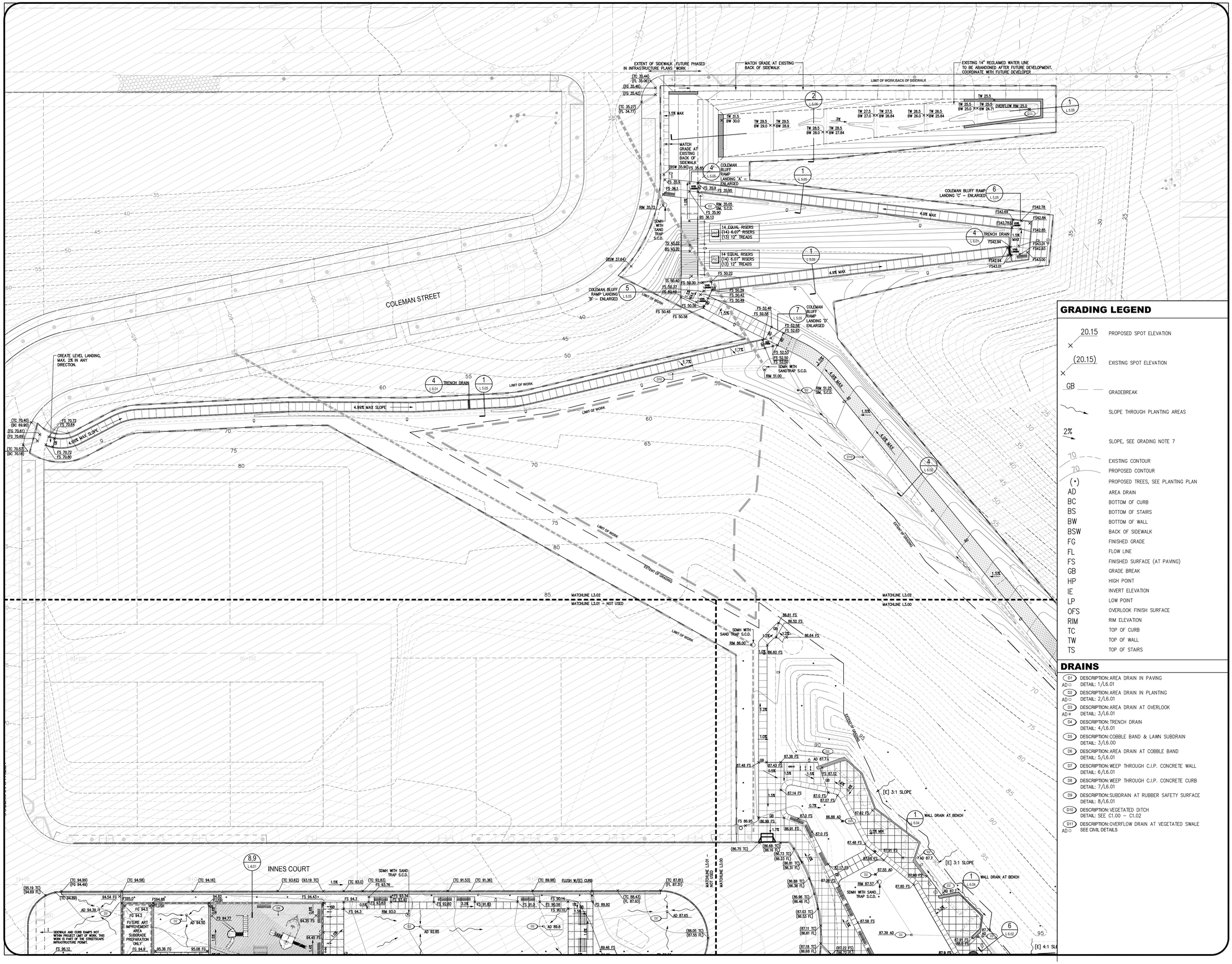
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Sheet Title:

Grading Plan - Hillpoint

Sheet No:

L3.00



GRADING LEGEND

20.15	PROPOSED SPOT ELEVATION
(20.15)	EXISTING SPOT ELEVATION
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	SLOPE THROUGH PLANTING AREAS
2%	SLOPE, SEE GRADING NOTE 7
70	EXISTING CONTOUR
70	PROPOSED CONTOUR
(•)	PROPOSED TREES, SEE PLANTING PLAN
AD	AREA DRAIN
BC	BOTTOM OF CURB
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
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FG	FINISHED GRADE
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OFS	OVERLOOK FINISH SURFACE
RIM	RIM ELEVATION
TC	TOP OF CURB
TW	TOP OF WALL
TS	TOP OF STAIRS

DRAINS

- D1 — DESCRIPTION: AREA DRAIN IN PAVING — DETAIL: 1/L6.01
- D2 — DESCRIPTION: AREA DRAIN IN PLANTING — DETAIL: 2/L6.01
- D3 — DESCRIPTION: AREA DRAIN AT OVERLOOK — DETAIL: 3/L6.01
- D4 — DESCRIPTION: TRENCH DRAIN — DETAIL: 4/L6.01
- D5 — DESCRIPTION: COBBLE BAND & LAWN SUBDRAIN — DETAIL: 3/L6.00
- D6 — DESCRIPTION: AREA DRAIN AT COBBLE BAND — DETAIL: 5/L6.01
- D7 — DESCRIPTION: WEEP THROUGH C.I.P. CONCRETE WALL — DETAIL: 6/L6.01
- D8 — DESCRIPTION: WEEP THROUGH C.I.P. CONCRETE CURB — DETAIL: 7/L6.01
- D9 — DESCRIPTION: SUBDRAIN AT RUBBER SAFETY SURFACE — DETAIL: 8/L6.01
- D10 — DESCRIPTION: VEGETATED DITCH — DETAIL: SEE C1.00 – C1.02
- D11 — DESCRIPTION: OVERFLOW DRAIN AT VEGETATED SWALE — SEE CIVIL DETAILS

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LICENSED LANDSCAPE ARCHITECT — KEVIN L. CONGER No. 3237 — Signature — 12/31/2013 — Renewal Date — Date — STATE OF CALIFORNIA



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San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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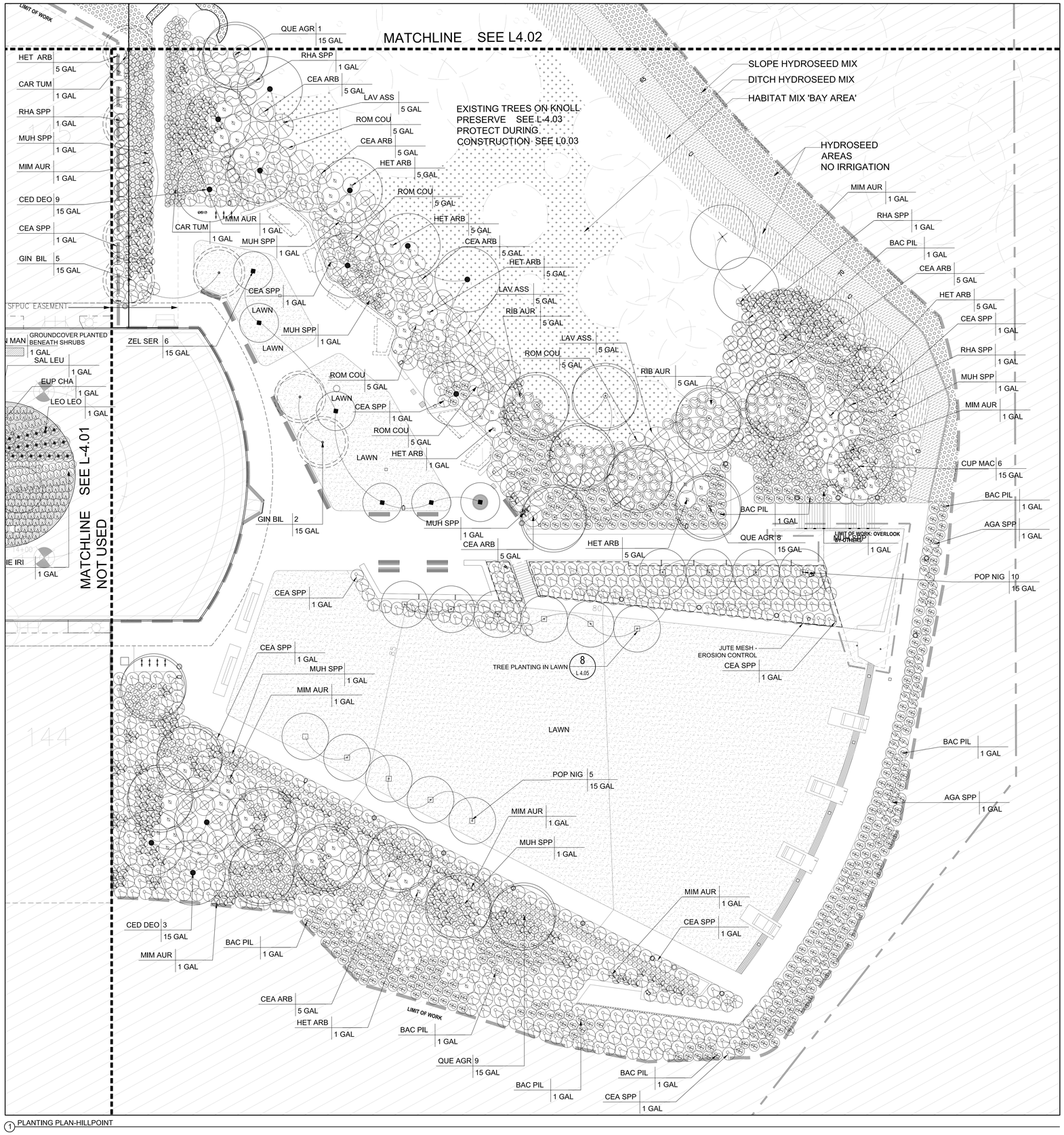
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Sheet Title:

Grading Plan - Coleman Bluff

Sheet No:

L3.02



1 PLANTING PLAN-HILLPOINT

SEE L4.04 FOR PLANT SCHEDULE

ABBREVIATED PLANT SCHEDULE

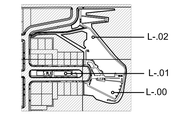
SHRUBS AND PERENNIALS	
SYMBOL	KEY
	CEA ARB
	HET ARB
	BAC PIL
	RHA SPP
	CAR TUM
	RIB AUR
	MUH SPP
	ROM COU
	LAV ASS
	CEA SPP
	MIM AUR
	AGA SPP
	EUP CHA
	DIE IRI
	LEO LEO
	SAL LEU
	SEN MAN
	JUN EFF
	BUL MAR
	JUN EFF
	IRI DOU
	IRI PAC
	LOM LON
	LAWN
	SLOPE HYDROSEED MIX
	DITCH HYDROSEED MIX
	HABITAT MIX 'BAY AREA'
TREES	
	CED DEO
	CUP MAC
	FRA VEL
	GIN BIL
	POP NIG
	QUE AGR
	ZEL SER

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Signature
Date
Renew2 Date
License
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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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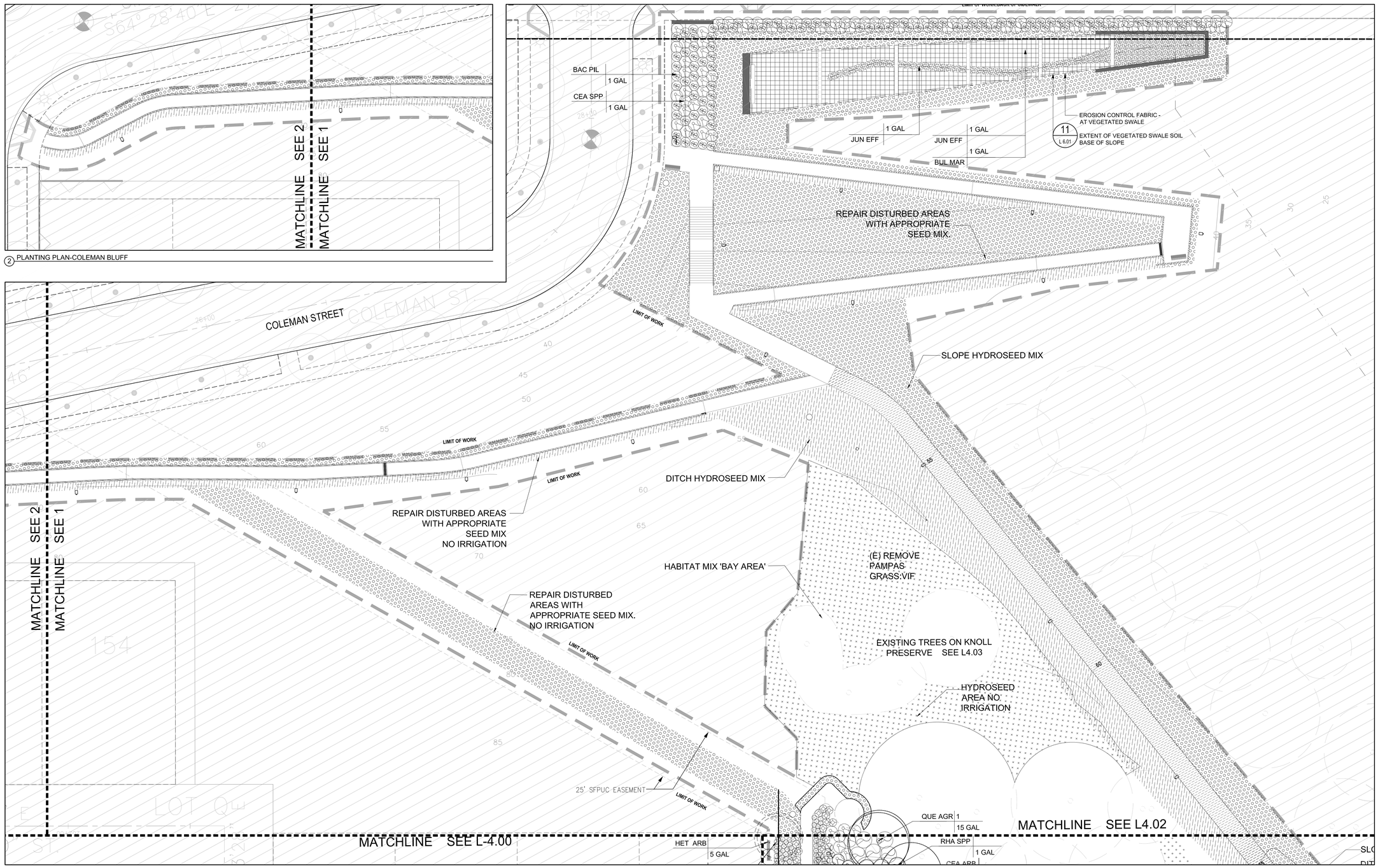
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Sheet Title:

Planting Plan
Hillpoint

Sheet No:

L4.00



2 PLANTING PLAN-COLEMAN BLUFF

1 PLANTING PLAN-COLEMAN BLUFF

SEE L4.04 FOR PLANT SCHEDULE

ABBREVIATED PLANT SCHEDULE

SHRUBS AND PERENNIALS														TREES			
SYMBOL	KEY	SYMBOL	KEY	SYMBOL	KEY	SYMBOL	KEY	SYMBOL	KEY	SYMBOL	KEY	SYMBOL	KEY	SYMBOL	KEY	SYMBOL	KEY
	CEA ARB		CAR TUM		LAV ASS		EUP CHA		SEN MAN		IRI DOU		SLOPE HYDROSEED MIX		CED DEO		POP NIG
	HET ARB		RIB AUR		CEA SPP		DIE IRI		JUN EFF		IRI PAC		DITCH HYDROSEED MIX		CUP MAC		QUE AGR
	BAC PIL		MUH SPP		MIM AUR		LEO LEO		BUL MAR		LOM LON		HABITAT MIX 'BAY AREA'		FRA VEL		ZEL SER
	RHA SPP		ROM COU		AGA SPP		SAL LEU		JUN EFF		LAWN				GIN BIL		

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Stamp:

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KEVIN L. CONGER No. 3652
Signature
Date
Renewal Date
STATE OF CALIFORNIA

L-.02
L-.01
L-.00

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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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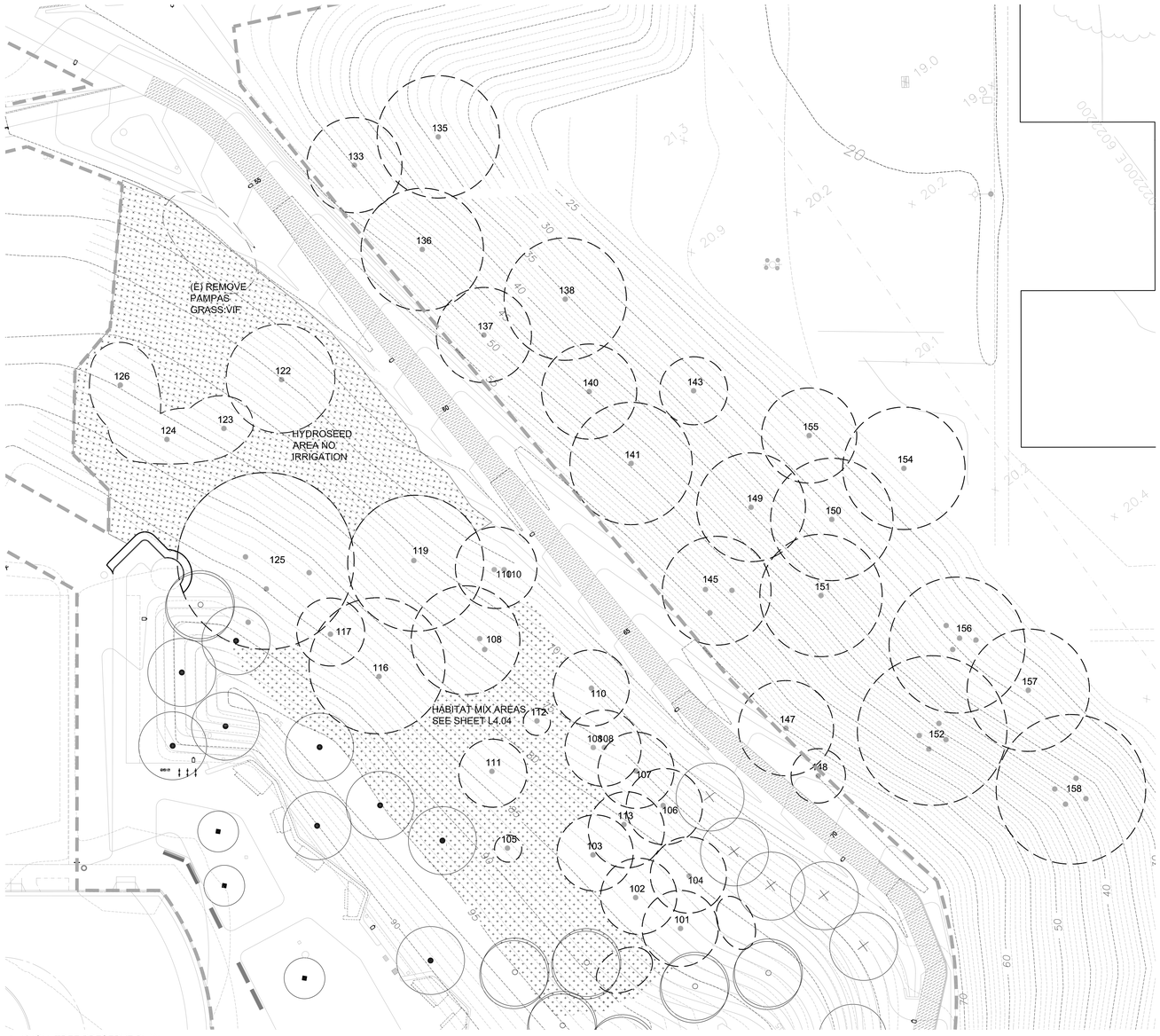
Description:
RE-BID SET

Job No: LEN 0601
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SCALE: 1/16"=1'-0"
0' 8' 16' 32'
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Sheet Title:
Planting Plan
Coleman Bluff

Sheet No:
L4.02



1 KNOLL TREE PRESERVE PLAN

LEGEND

EXTENTS OF TREE PROTECTION ZONE (SEE L0.03)

111 EXISTING TREES TO REMAIN AND TO BE PROTECTED

NOTES

EXISTING TREES

1. EXISTING TREES TO BE PROTECTED PER THE TREE PROTECTION PLAN SHEET L0.03.

2. ALL WORK WITHIN CANOPY DRIP LINE SHALL BE HAND LABOR.

3. NO IRRIGATION WITHIN THE DRIP LINE OF EXISTING TREES.

4. PRUNE AND MAINTAIN THE EXISTING TREES PER RECOMMENDATIONS "TREE PRESERVATION REPORT – HUNTER'S POINT SHIPYARD PARCEL A SAN FRANCISCO, CA." PREPARED BY HORT SCIENCE, DATED SEPTEMBER 2004.

5. LOCATION OF THE EXISTING TREES IS APPROXIMATE. PLAN FOR INFORMATION AND COORDINATION ONLY. EXISTING TREES SURVEYED BY HORT SCIENCE SEE REPORT DATED 2004

6. TREE NUMBERING IS BASED ON HORT SCIENCE REPORT DATED 2004. MISSING TREE NUMBERS INDICATE TREES WHICH WERE REMOVED DURING 2007 MASS GRADING OPERATIONS.

REMOVAL OF INVASIVE SPECIES AND PROPOSED PLANTING

1. CLEAR AND GRUB ALL INVASIVE PLANTS, SUCH AS PAMPAS GRASS AND ACACIA SEEDLINGS. TREAT WITH ROUNDUP PRIOR.

2. APPLICATION OF ROUNDUP SHOULD OCCUR 4 TIMES FROM THE MONTH OF JUNE THROUGH SEPTEMBER.

3. AFTER CLEAR AND GRUB AND TREATMENT, HYDROSEED DISTURBED AREAS WITH "HABITAT MIX" (SEE SHEET L4.04).

EXISTING TREES TO BE PRESERVED

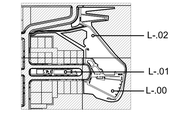
TREE NO.	SPECIES	DIAMETER (IN INCHES)
101	CORK OAK	12,12
102	CORK OAK	15
103	CORK OAK	11
104	CORK OAK	16
105	DEODAR CEDAR	5
106	CORK OAK	12,8
107	CORK OAK	15
108	MONTEREY PINE	22,18
110	MONTEREY PINE	11
111	TOYON	7,7,6,5,5
112	DEODAR CEDAR	8
113	CORK OAK	9,7
116	MONTEREY PINE	35
117	TOYON	8,5,4,4
119	MONTEREY PINE	29
122	MONTEREY PINE	16
123	TOYON	6.5.5,4
124	TOYON	10,8,7,7,6
125	MONTEREY PINE	21,19,19,17
126	TOYON	7,6,6,6,5
133	MONTEREY PINE	17
134	MONTEREY CYPRESS	23,19,16
135	MONTEREY PINE	24
136	MONTEREY PINE	25
137	MONTEREY PINE	18
138	MONTEREY PINE	27
140	MONTEREY PINE	17
141	MONTEREY PINE	35
143	CORK OAK	7
145	TOYON	7,4,3
147	CORK OAK	13
148	SYDNEY GOLDEN WATTLE	6
149	BLUE GUM	35
150	BLUE GUM	28
151	BLUE GUM	38
152	MONTEREY CYPRESS	17,15,14,12
153	MONTEREY PINE	16
154	BLUE GUM	31
155	MONTEREY CYPRESS	18
156	MONTEREY CYPRESS	10,9,7,7
157	MONTEREY PINE	17
158	MONTEREY CYPRESS	17,11,10,9

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LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Original
Renewal Date
10/31/15
STATE OF CALIFORNIA



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One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=20'-0"
0' 10' 20' 40'
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Sheet Title:
Knoll
Preservation Plan

Sheet No:
L4.03

PLANT SCHEDULE

SHRUBS AND PERENNIALS

SYMBOL	KEY	SIZE	BOTANICAL NAME	COMMON NAME	NOTES/SPACING	WATER USE	QUANTITY
	CEA ARB	5 GAL	CEANOTHUS ARBOREUS	TREE LILAC	EVERGREEN SHRUB	L	67
	HET ARB	5 GAL	HETEROMELES ARBUTIFOLIA *	TOYON	EVERGREEN SHRUB	L	78
	BAC PIL	1 GAL	BACCHARIS PILULARIS ' TWIN PEAKS' *	DWARF COYOTE BUSH	EVERGREEN SHRUB	L	597
	RHA SPP	1 GAL	RHAMNUS CALIFORNICA *	COFFEEBERRY	EVERGREEN SHRUB	L	56
	CAR TUM	1 GAL	CAREX TUMULICOLA *	BERKELEY SEDGE	PERENNIAL	M	597
	RIB AUR	5 GAL	RIBES AUREUM *	CURRANT, GOOSEBERRY	EVERGREEN SHRUB	L	74
	MUH SPP	1 GAL	MUHLENBERGIA RIGENS *	DEER GRASS	PERENNIAL	L	330
	ROM COU	1 GAL	ROMNEYA COULTERI *	MATILIJA POPPY	PERENNIAL	VL	26
	LAV ASS	5 GAL	LAVATERA ASSURGENTIFLORA	TREE MALLOW	EVERGREEN SHRUB	L	17
	CEA SPP	1 GAL	CEANOTHUS G. 'HURRICANE POINT' *	WILD LILAC - GROUNDCOVER	EVERGREEN SHRUB	L	650
	MIM AUR	1 GAL	MIMULUS AURANTIACUS *	STICKY MONKEY FLOWER	PERENNIAL	L	495
	AGA SPP	1 GAL	AGAVA AMERICANA VARIEGATA	VARIEGATED AGAVE	PERENNIAL	L	49
	EUP CHA	1 GAL	EUPHORBIA CHARACIAS WULFENII	SPURGE	PERENNIAL	M	106
	DIE IRI	1 GAL	DIETES IRIDOIDES	FORTNIGHT LILY	PERENNIAL	L	134
	LEO LEO	1 GAL	LEONOTIS LEONURUS	LION'S TAIL	EVERGREEN SHRUB	L	51
	SAL LEU	1 GAL	SALVIA LEUCANTHA	MEXICAN SALVIA	EVERGREEN SHRUB	M	395
	SEN MAN	1 GAL	SENECIO MANDRALISCAE	BLUE CHALK STICK	SUCCULENT	L	12" OC TRI SPC 3350 SF
	JUN EFF	1 GAL	JUNCUS EFFUSUS	SOFT RUSH	RUSH	L	18" OC TRI SPC 1550 SF
	BUL MAR	1 GAL	BULBOSCHOENUS MARITIMUS	BULRUSH	SEDGE	L	18" OC TRI SPC 1550 SF
	JUN EFF	1 GAL	JUNCUS EFFUSUS	SOFT RUSH	RUSH	L	12" OC TRI SPC 850 SF
	IRI DOU	BULB	IRIS DOUGLASIANA	BLUE DOUGLAS IRIS	BULB	L	200
	IRI PAC	BULB	IRIS 'PACIFIC COAST HYBRID'	BLUE IRIS	BULB	L	200
	LOM LON	4" POT/8"OC	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	GRASS	L	2870 SF
	LAWN	SOD	DWARF TALL FESCUE 'NEW CENTURY BLEND'	SOD - TURF	GRASS	M	33,100 SF

* CALIFORNIA NATIVE PLANTS

TREES

SYMBOL	KEY	SIZE	BOTANICAL NAME	COMMON NAME	NOTES/SPACING	WATER USE	QUANTITY
	CED DEO	15 GAL	CEDRUS DEODARA	DEODAR CEDAR	EVERGREEN	M	13
	CUP MAC	15 GAL	CUPRESSUS MACROCARPA * SEE NOTE 12	MONTEREY CYPRESS	EVERGREEN	L	7
	FRA VEL	15 GAL	FRAXINUS VELUTINA 'MODESTO'	MODESTO ASH	DECIDUOUS	M	7
	GIN BIL	15 GAL	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD GINKGO	WINDROW TREE	M	31
	POP NIG	15 GAL	POPULUS NIGRA 'AFGHANICA'	THEVES POPLAR	WINDROW TREE	M	30
	QUE AGR	15 GAL	QUERCUS AGRIFOLIA *	COAST LIVE OAK	BROADLEAF EVERGREEN	L	20
	ZEL SER	15 GAL	ZELKOVA SERRATA 'VILLAGE GREEN'	VILLAGE GREEN ZELKOVA	DECIDUOUS	M	7

* CALIFORNIA NATIVE PLANTS

SLOPE HYDROSEED MIX

PLS Lbs./ ACRE	SEED	COMMON NAME
8.0	VULPIA MICROSTACHYS	THREE WEEKS FESCUE
4.0	LUPINUS NANUS	SKY LUPINE*
0.2	MIMILUS AURANTIACUS V. AURANTIACUS	STICKY MONKEYFLOWER
1.0	ERIOPHYLLUM STAECHADIFOLIUM	GOLDEN YARROW
2.0	CLARKIA PURPUREA	PURPLE CLARKIA
2.0	ESCHSCHOLZIA MARITIMA	COASTAL CALLIFORNIA POPPY
1.5	ERIOGONUM ARBORESCENS	ISLAND BUCKWHEAT
2.0	ERIOGONIUM PARVIFOLIUM	SEA CLIFF BUCKWHEAT
1.0	ACHILLEA MILLIFOLIUM	WHITE YARROW
4.0	LOTUS SCOPARIUS	DEERWEED
8.0	ELYMUS GLAUCUS	BAY AREA BLUE WILDRYE
10.0	BROMUS CARINATUS VAR. MARITIMUS	COASTAL BROME

*LEGUME SEED SHALL BE PELLET-INOCULATED AS PER CAL-TRANS STANDARD SPECS AND AS PER BULLETIN 1842, "RANGE- LEGUME INOCULATION AND NITROGEN FIXATION BY ROOT-NODULE BACTERIA."

DITCH HYDROSEED MIX

PLS Lbs./ ACRE	SEED	COMMON NAME
8.0	HORDEUM DEPRESSUM	ALKALI BARLEY
13.0	HORDEUM BRACHYANTHERUM VAR CALIFORNICUM	SERPINTINE
10.0	ELYMUS GLAUCUS	BLUE WILDRYE, BERKELEY TYPE
1.0	LEYMUS TRITICOIDES	YOLO CREEPING WILDRYE
6.0	FESTUCA RUBRA	MOLATE FESCUE
5.0	PLANTAGO ERECTA	SERPINTINE PLANTAIN
3.0	ECYPERUS ERIGRATIS	UMBRELLA PLANT
4.0	BACCHARIS DOUGLASIANA	DOUGLASI BACCHARIS

HABITAT MIX 'BAY AREA'

PLS Lbs./ ACRE	SEED	COMMON NAME
7.0	BROMUS CARINATUS	NATIVE CALIFORNIA BROME
6.0	ELYMUS GLAUCUS	BLUE WILDRYE
6.0	HORDEUM CALIFORNICUM	CALIFORNIA BARLEY
3.0	FESTUCA IDAHOENSIS	IDAHO FESCUE
3.0	NASSELLA PULCHRA	PURPLE NEEDLEGRASS
16.0	FESTUCA RUBRA MOLATE	MOLATE FESCUE

PLANT PIT SIZE TABLE

CONTAINER SIZE	PLANT PIT DIAMETER
1 GAL. PLANT	18" MINIMUM
5 GAL. PLANT	30" MINIMUM
15 GAL. PLANT	3' MINIMUM
24" PLANT	5' MINIMUM
36" PLANT	7' MINIMUM
48" PLANT	8' MINIMUM
60" PLANT	9' MINIMUM

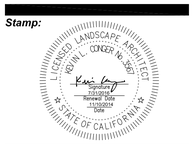
PLANTING NOTES:

1. ALL PLANT LOCATIONS ARE DIAGRAMMATIC AND ARE SUBJECT TO CHANGE BY LANDSCAPE ARCHITECT. PLANT LAYOUT TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CLEAR AND GRUB ALL AREAS TO RECEIVE NEW PLANTING AND PREPARE SOIL PER SOIL PREPARATION SPECIFICATION.
3. PLANT QUANTITIES ARE FOR CONTRACTOR'S CONVENIENCE ONLY. DESIGN INTENT IS TO HAVE FULL PLANTING COVERAGE. CONTRACTOR IS RESPONSIBLE FOR FINAL PLANT QUANTITIES TO FULFILL THE DESIGN INTENT.
4. ALL TREES, SHRUBS, VINES AND GROUND COVERS TO BE INSTALLED PER PLANTING DETAILS AND SPECIFICATIONS.
5. ALL WORK SHALL BE PERFORMED BY A LANDSCAPE CONTRACTOR FAMILIAR WITH THIS TYPE OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED PLANTING FOREMAN.
6. ALL PLANTING AREAS TO BE TOP DRESSED WITH 2" LAYER OF MULCH.
7. VERIFY IN FIELD LOCATIONS OF ALL EXISTING TREES TO REMAIN. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
8. PLANT LAYOUT AND SPACING IS PER PLAN. PLANT SYMBOLS ARE ACCURATELY SIZED TO DETERMINE SPACING.
9. EXISTING TREES TO BE PROTECTED PER TREE PROTECTION PLAN. ALL WORK WITHIN CANOPY DRIPLINE SHALL BE HAND LABOR.
10. SENECIO MANDRALISCAE IS A SUCCULENT GROUNDCOVER PLANTED BENEATH EVERGREEN PERENNIALS AND SHRUBS AT INNES COURT PARK.
11. PLANT LAYOUT OF VEGETATED STORMWATER SWALE PLANTING IN FIELD BY LANDSCAPE ARCHITECT.
12. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS , OR LARVAE.

AWA
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333 Bryant Street, Suite 120
San Francisco, CA 94107

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE
HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

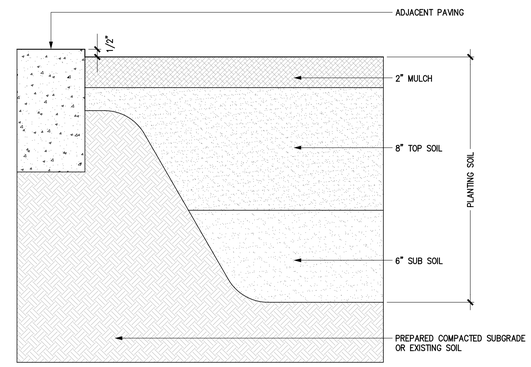
No:	Revision	Date:
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Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

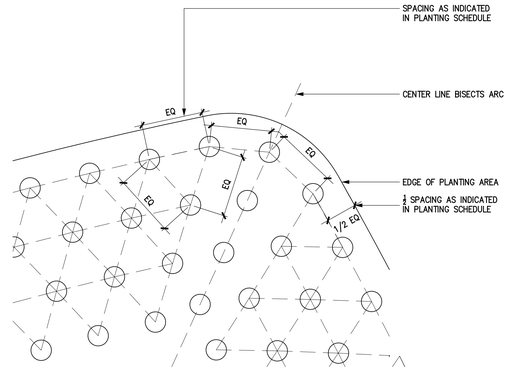
Sheet Title:
Planting Schedule And Notes

Sheet No:
L4.04



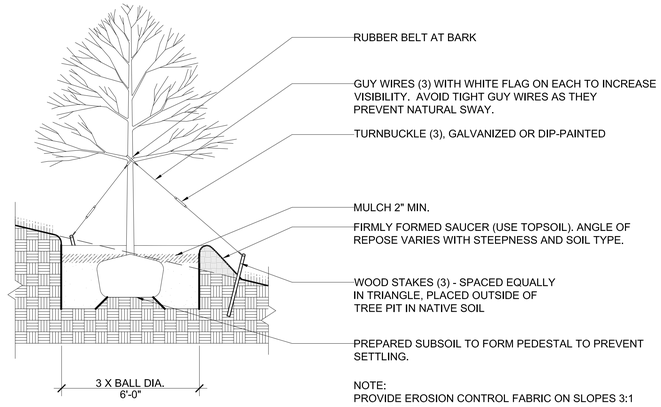
11 PLANTING AREA SOIL SECTION

SCALE: 3"=1'-0"



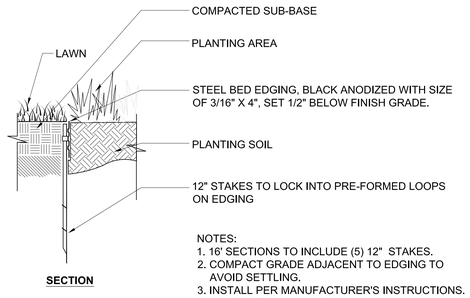
7 PLANTING LAYOUT - ARC EDGE - TRI SPACING

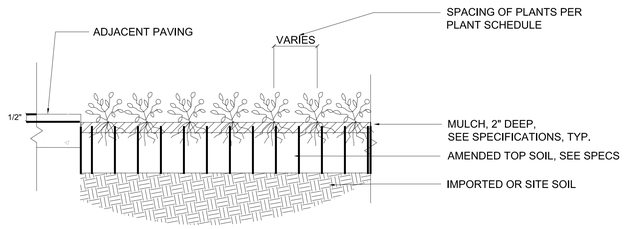
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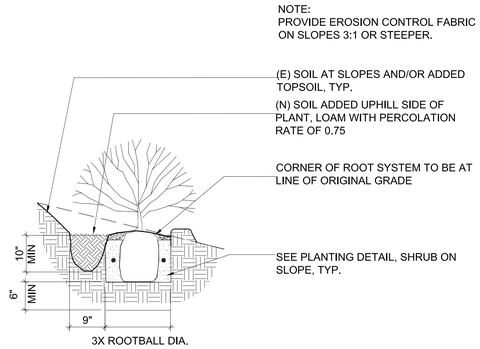


4 TREE PLANTING ON SLOPE

SCALE: NTS

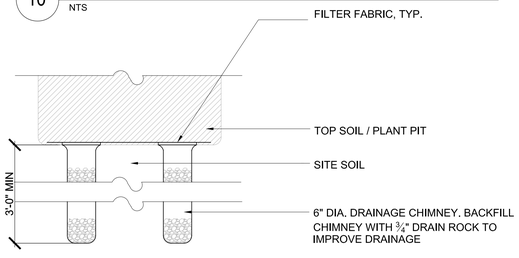






10 METAL HEADER

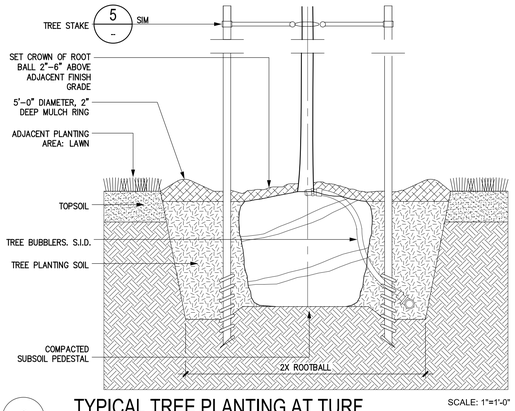
NTS



NOTE: EXISTING SITE CONDITIONS INCLUDE ROCK WITHIN 2 FEET OF PROPOSED FINISH GRADE. TREE DRAINAGE WELLS MAY BE REQUIRED TO DRAIN TREE PITS.

9 TREE WELL DRAINAGE

SCALE: NTS

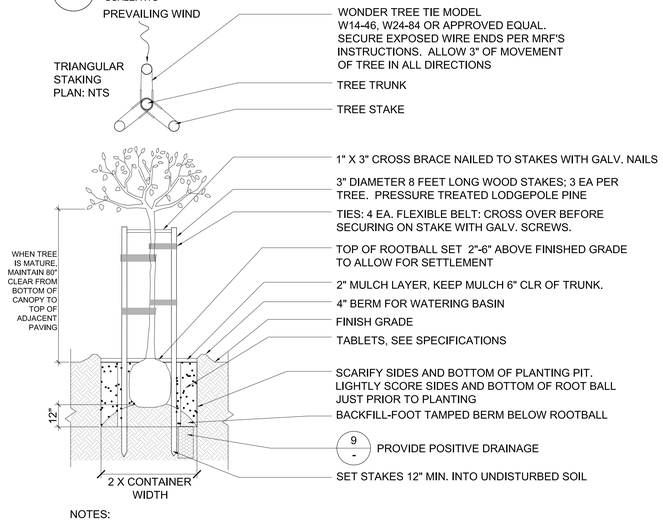


8 TYPICAL TREE PLANTING AT TURF

SCALE: 1"=1'-0"

6 GROUNDCOVER DETAIL

SCALE: NTS



NOTES:

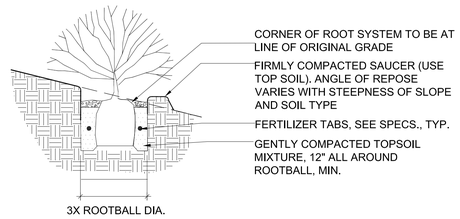
1. SOIL TO BE TESTED AT SOIL LABORATORY TO DETERMINE TYPE OF SOIL AND APPROPRIATE DRAINAGE REQUIREMENTS.
2. TREES MUST HAVE AN UNCUT LEADER AND HAVE A UNIFORM TAPER FROM BASE TO TIP. TREES MUST MEET NORMAL CALIPER AND HEIGHT FOR CONTAINER SIZE. OVERGROWN TREES ARE NOT ACCEPTABLE.
3. ROOT BALL: TREES SHALL NOT BE ROOT BOUND. SCARIFY ROOT BALL BEFORE PLANTING. PLANT WITH CROWN ABOVE EXISTING GRADE TO ALLOW FOR SETTLEMENT.
4. PLANT PIT SIZE SHALL BE 24" WIDER THAN CONTAINER, OR TWICE THE WIDTH, WHICHEVER IS GREATER.
5. TREE STAKE: ALL TREE STAKES MUST BE PLACED OUTSIDE OF ROOTBALL. STAKES TO BE PLUMB. STAKES TO BE NO CLOSER THAN 4" OR FARTHER THAN 16" FROM TRUNK.

5 TREE PLANTING, TYP

SCALE: NTS

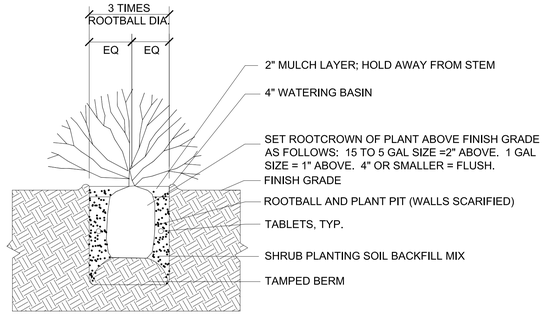
3 SHRUB WATERING BASIN ON SLOPES

3/4"=1'-0"



2 SHRUB PLANTING ON SLOPES

3/4"=1'-0"



1 SHRUB INSTALLATION

SCALE: NTS

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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/14
Renewal Date
Date
OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
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12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

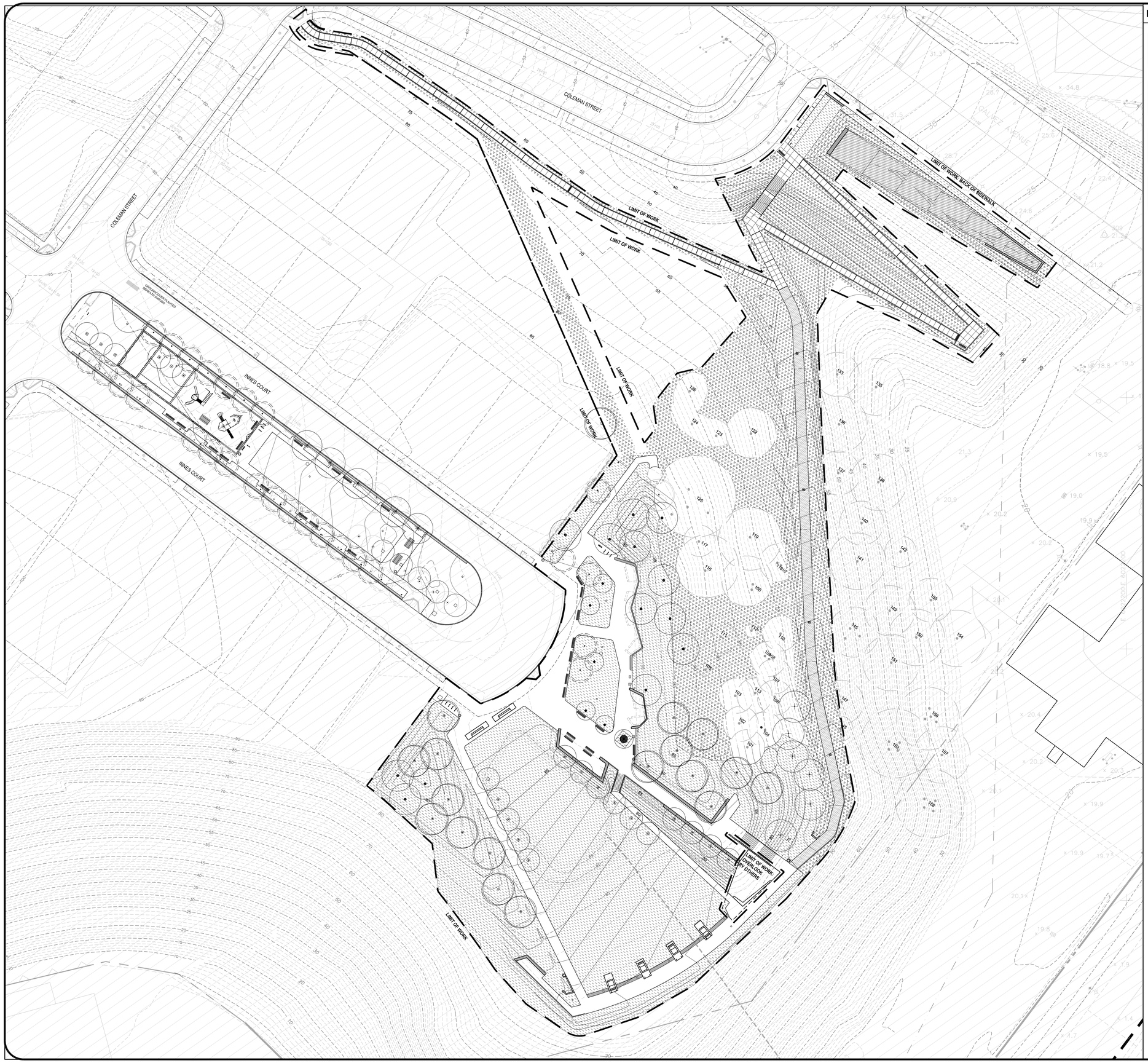
Sheet Title:

Planting Details

Sheet No:

L4.05

AWA
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San Francisco, CA 94107



LANDSCAPE SOILS SCHEDULE

PLANTING SOIL –
SEE DETAIL 11 /L4.05

VEGETATED SWALE SOIL –
SEE DETAIL 11 /L6.01

STRUCTURAL PLANTING SOIL –
SEE DETAIL 3 & 5/L6.08

HYDROSEED AREA –
SEE L4.04 FOR SCHEDULE

SEE LANDSCAPE SOILS SPECIFICATIONS.

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KEVIN L. CONGER No. 3652
Signature
Original
Renewal Date
10/31/2015
STATE OF CALIFORNIA

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One Sansome Street, Suite 3200
San Francisco, CA 94104

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No:	Revision	Date:

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

SCALE: 1"=30'-0"
0' 15' 30' 60'
N

Sheet Title:

Landscape
Soils Plan

Sheet No:

L4.06

COLEMAN STREET

INNES COURT

LIMIT OF WORK

LIMIT OF WORK BACK OF SIDEWALK

NOTES:

1. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL TWO BUBBLERS AT EACH TREE AS DETAILED.
2. IRRIGATION EQUIPMENT MAY BE SHOWN WITHIN HARDSCAPE FOR GRAPHIC CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN PLANTED AREAS. IRRIGATION PIPE AND WIRE CROSSING BENEATH HARDSCAPE SURFACES SHALL BE CONTAINED WITHIN SLEEVING OR SCHEDULE 40 PVC CONDUIT. SLEEVING SIZE SHALL BE A MINIMUM OF TWO TIMES THE AGGREGATE DIAMETER OF ALL PIPE CONTAINED WITHIN SLEEVE. PROVIDE VERTICAL SWEEP FOR ALL ELECTRICAL CONDUIT ON EACH SIDE OF HARDSCAPE AND TERMINATE ENDS AT 12" MINIMUM DEPTH AND 12" FROM HARDSCAPE SURFACE
3. UNSIZED LATERAL LINE PIPE LOCATED DOWN STREAM OF 1" PIPING SHALL BE 3/4" IN SIZE (TYPICAL).
4. SIZING OF LATERAL PIPE SHALL BE AS FOLLOWS:

3/4"	0–6 GPM
1"	7–12 GPM
1 1/4"	13–20 GPM
1 1/2"	21–32 GPM
2"	33–50 GPM

MATCHLINE SEE I1.00

MATCHLINE SEE I1.02

SEE I1.01

SEE I1.00

(E) REMOVE PAMPAS GRASS TYP.

EXISTING TREES ON KNOLL PRESERVE SEE L4.03

HYDROSEED AREAS NO IRRIGATION

EXISTING TREES ON KNOLL PRESERVE SEE L4.03 PROTECT DURING CONSTRUCTION SEE L4.00 HABITAT MIX AREAS SEE SHEET L4.04

CLOSE HYDROSEED MIX

DITCH HYDROSEED MIX

HABITAT MIX BAY AREA

HYDROSEED AREAS NO IRRIGATION

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LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
11/10/2014
Date
STATE OF CALIFORNIA

L-.02
L-.01
L-.00

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San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
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Description:

RE-BID SET

Job No: LEN 0601
Date: 11 NOV 2014

SCALE: 1/16"=1'-0"
0' 8' 16' 32'

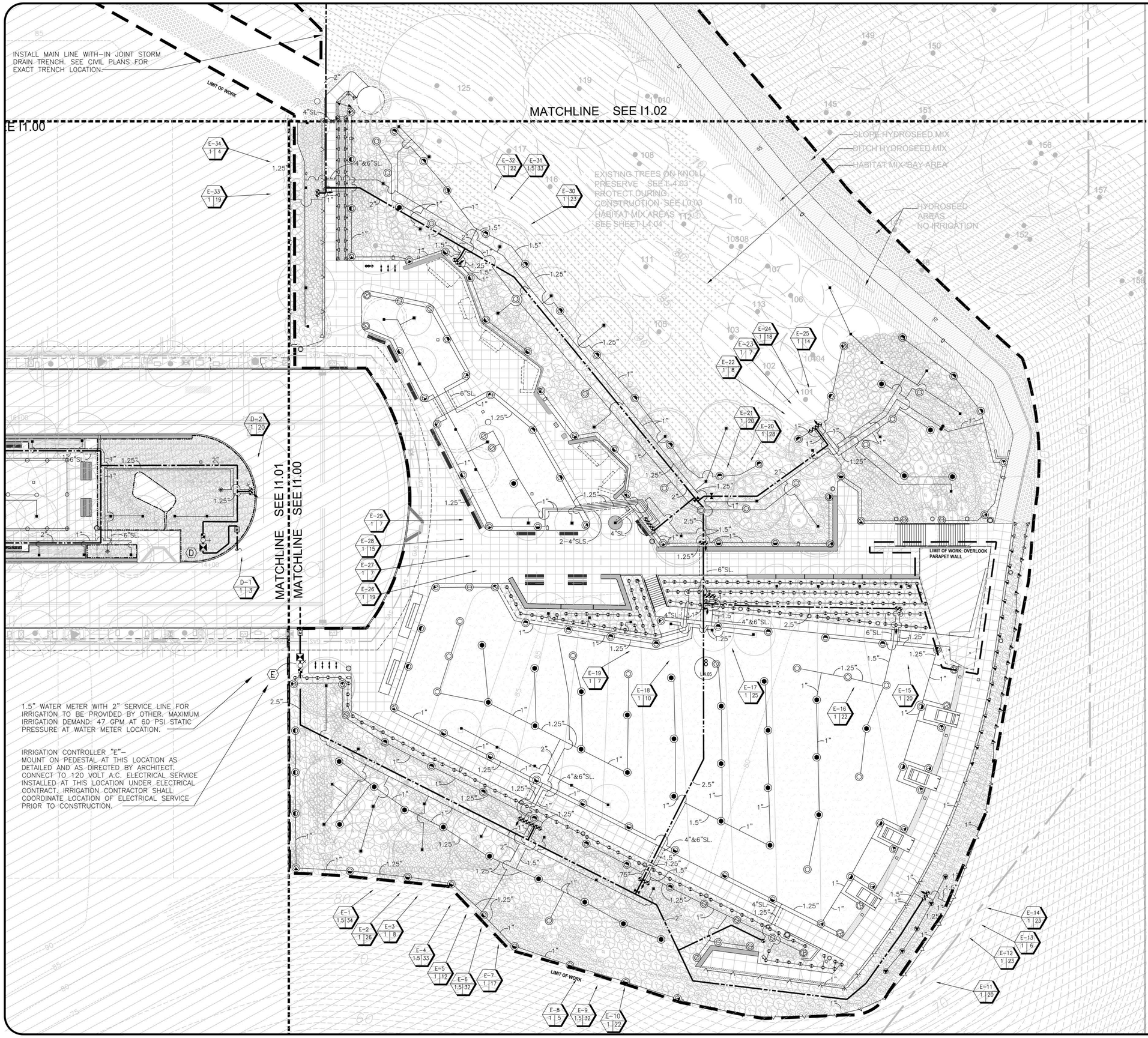
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Sheet Title:

Irrigation Plan - Coleman Bluff

Sheet No:

I1.02



NOTES:

1. ONE BUBBLER SYMBOL IS SHOWN AT TREES FOR GRAPHIC CLARITY ONLY. INSTALL TWO BUBBLERS AT EACH TREE AS DETAILED.
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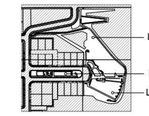
3/4"	0-6 GPM
1"	7-12 GPM
1 1/4"	13-20 GPM
1 1/2"	21-32 GPM
2"	33-50 GPM

Irrigation Consultant:
Russell D. Mitchell Associates, Inc.
2760 Camino Diablo
Walnut Creek, CA 94597
Phone (925) 938-3985 Email: RMA@RMAIRRIGATION.COM
Fax (925) 932-5671

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Renewal 1/31/2026
Date
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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Job No: LEN 0601
Date: 11 NOV 2014

SCALE: 1/16"=1'-0"
0' 8' 16' 32'
N

Sheet Title:
Irrigation Plan - Hillpoint

Sheet No:
I1.00

IRRIGATION NOTES

1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS MAY BE SHOWN WITHIN PAVED AREAS FOR GRAPHIC CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED. INVESTIGATE THE STRUCTURAL AND FINISHED CONDITION AFFECTING THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.

2. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.

3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE AND WIND EXPOSURES.

4. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE IRRIGATION CONTROLLER LOCATIONS(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE INSTALLATION AND TO MAKE FINAL CONNECTION FROM ELECTRICAL SERVICE STUB-OUT TO CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.

5. PROVIDE EACH CONTROLLER WITH ITS OWN GROUND ROD. SEPARATE THE GROUND RODS BY A MINIMUM OF EIGHT FEET. THE GROUND ROD SHALL BE AN EIGHT FOOT LONG BY 5/8" DIAMETER U.L. APPROVED COPPER CLAD ROD. INSTALL NO MORE THAN 6" OF THE GROUND ROD ABOVE FINISH GRADE. CONNECT #6 GAUGE WIRE WITH A U.L. APPROVED GROUND ROD CLAMP TO ROD AND BACK TO GROUND SCREW AT BASE OF CONTROLLER WITH APPROPRIATE CONNECTOR. MAKE THIS WIRE AS SHORT AS POSSIBLE, AVOIDING KINKS OR BENDING.

6. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.

7. INSTALL NEW BATTERIES IN IRRIGATION CONTROLLER(S) TO RETAIN PROGRAM IN MEMORY DURING TEMPORARY POWER FAILURES. USE QUANTITY, TYPE AND SIZE REQUIRED AS PER CONTROLLER MANUFACTURER'S INSTRUCTIONS.

8. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.

9. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.

10. INSTALL TWO SPARE CONTROL WIRE OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.

11. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING OR CONDUIT.

12. INSTALL GREEN PLASTIC VALVE BOXES WITH BOLT DOWN, NON HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE NDS, CARSON OR APPROVED EQUAL.

13. INSTALL REMOTE CONTROL VALVE BOXES BEHIND SECOND ROW OF SHRUBS. AT MULTIPLE VALVE BOX GROUPS, LEAVE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING OR LANDSCAPE FEATURE.

14. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (NOT IN LAWN AREA).

15. INSTALL A GATE VALVE TO ISOLATE EACH REMOTE CONTROL VALVE OR GROUP OF RCV'S LOCATED TOGETHER. GATE VALVE SIZE SHALL BE SAME AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.

16. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.

17. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE.

18. LOCATE BUBBLERS ON UPHILL SIDE OF PLANT OR TREE.

19. INSTALL A KBI CV-SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN LATERAL LINES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.

20. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR. PAINT ROOTS ONE (1) INCH AND LARGER IN DIAMETER WITH TWO COATS OF TREE SEAL, OR EQUAL. BACK FILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR (24) HOURS. WHERE THIS IS NOT POSSIBLE, SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.

21. NOTIFY LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.

22. THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.

23. IRRIGATION DEMAND: REFER TO PLANS.

24. PIPE SIZING SHOWN ON THE DRAWINGS IS TYPICAL. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION THE SIZE MAY NEED TO BE ADJUSTED ACCORDINGLY.

25. PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL #5

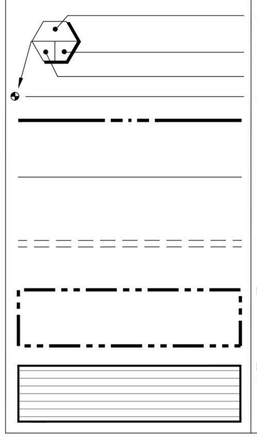
"I HAVE COMPLIED WITH THE CRITERIA OF THE SAN FRANCISCO WATER EFFICIENT IRRIGATION ORDINANCE AND APPLIED THEM ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN."

Chris Mitchell

SIGNATURE

IRRIGATION LEGEND

SYMBOL	NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)	PRECIPITATION RATE
	I-20-12-3.0	HUNTER POP-UP ROTARY SPRINKLER (SHRUB)	3.0	45	28-34	0.92
	I-20-12-2.0	HUNTER POP-UP ROTARY SPRINKLER (SHRUB)	2.0	45	28-34	0.92
	I-20-6-3.0SR USE 12" POP MODELS IN SHRUB AREAS	HUNTER POP-UP ROTARY SPRINKLER (LAWN OR SHRUB)	3.0	50	20-25	0.53
	I-20-6-3.0SR USE 12" POP MODELS IN SHRUB AREAS	HUNTER POP-UP ROTARY SPRINKLER (LAWN OR SHRUB)	3.0	50	20-25	1.06
	I-20-6-1.5SR USE 12" POP MODELS IN SHRUB AREAS	HUNTER POP-UP ROTARY SPRINKLER (LAWN OR SHRUB)	1.5	50	20-25	1.06
	I-20-6-2.0SR USE 12" POP MODELS IN SHRUB AREAS	HUNTER POP-UP ROTARY SPRINKLER (LAWN OR SHRUB)	2.0	50	16-18	0.69
	I-20-6-2.0SR USE 12" POP MODELS IN SHRUB AREAS	HUNTER POP-UP ROTARY SPRINKLER (LAWN OR SHRUB)	2.0	50	16-18	1.37
	I-20-6-1.0SR USE 12" POP MODELS IN SHRUB AREAS	HUNTER POP-UP ROTARY SPRINKLER (LAWN OR SHRUB)	1.0	50	16-18	1.4
	570Z-PRX-6P-COM/ O-T-15-F,H,Q	TORO POP-UP SPRAY SPRINKLER (LAWN)	2.31,1.16, 0.58	30	12-15	1.0
	570Z-PRX-6P-COM/ O-T-12-F,H,Q	TORO POP-UP SPRAY SPRINKLER (LAWN)	1.48,0.74, 0.37	30	10-12	1.0
	570Z-PRX-6P-COM/ O-T-10-F,H,Q	TORO POP-UP SPRAY SPRINKLER (LAWN)	1.03,0.51, 0.23	30	8-10	1.0
	570Z-PRX-12P-COM/ O-T-15-H,Q	TORO POP-UP SPRAY SPRINKLER (SHRUB)	1.16,0.58	30	12-15	1.0
	570Z-PRX-12P-COM/ O-T-12-F,H	TORO POP-UP SPRAY SPRINKLER (SHRUB)	1.48,0.74	30	10-12	1.0
	570Z-PRX-12P-COM/ O-T-10-F,H	TORO POP-UP SPRAY SPRINKLER (SHRUB)	1.03,0.51	30	8-10	1.0
	570Z-PRX-12P-COM/ O-T-8-H,Q	TORO POP-UP SPRAY SPRINKLER (SHRUB)	0.33,0.17	30	6-8	1.0
	570Z-PRX-12P-COM/ O-T-5-H,Q	TORO POP-UP SPRAY SPRINKLER (SHRUB)	0.13,0.064	30	4-5	1.0
	LF40-PC	TORO BUBBLER (SHRUB)	0.07	30	TRICKLE	0.85
	HF050-PC	TORO BUBBLER (2 PER TREE)	0.5	30	TRICKLE	0.85
	P220-26 SERIES	TORO REMOTE CONTROL VALVE				
	DZK-TPV-1-LF	TORO REMOTE CONTROL VALVE DRIP ZONE KIT				
	33DNP	RAIN BIRD QUICK COUPLING VALVE				
		CONNECTION POINT FROM PVC LATERAL TO TORO BLUE STRIPE TUBING				
	DWS-200	GRISWOLD MASTER CONTROL VALVE (NORMALLY CLOSED)				
	FS-B150	RAIN MASTER FLOW SENSOR (4-80 GPM)				
	CV-SERIES	KBI INLINE SPRING LOADED CHECK VALVE (LINE SIZE)				
	600HLR-2"	WILKENS PRESSURE REDUCING VALVE				
	T-113-K	NIBCO GATE VALVE (LINE SIZE)				
	825YA-2"	FEBCO REDUCED PRESSURE BACKFLOW ASSEMBLY				
D	RME-18EG-SPED/ PMRKIT	RAIN MASTER EAGLE CONTROLLER MOUNTED IN A METAL PEDESTAL ENCLOSURE. CONTRACTOR TO INPUT HISTORICAL ET INTO THE CONTROLLER WHEN PROGRAMMING.				
	PM-XMT-R	RAIN MASTER HAND HELD TRANSMITTER				
E	RME-36EG-SPED/ PMRKIT	RAIN MASTER EAGLE CONTROLLER MOUNTED IN A METAL PEDESTAL ENCLOSURE. CONTRACTOR TO INPUT HISTORICAL ET INTO THE CONTROLLER WHEN PROGRAMMING.				



CONTROLLER AND STATION NUMBER

FLOW (GPM)

REMOTE CONTROL VALVE SIZE (IN INCHES)

ASSOCIATED REMOTE CONTROL VALVE

MAIN LINE: 2.5" AND SMALLER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS. 18" COVER.

LATERAL LINE: 3/4" AND LARGER: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT-WELD FITTINGS. 12" COVER.

SLEEVING: 1120-SCHEDULE 40 PVC PLASTIC PIPE. COVER TO BE AS INDICATED IN SPECIFICATIONS. SIZE AS SHOWN.

DRIP ZONE: TORO BLUE STRIPE POLYETHYLENE HOSE. INSTALL WITHIN SHALLOW TRENCH AS DETAILED. SEE DETAILS FOR INSTALLATION AND TORO PART NUMBERS.

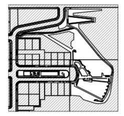
DRIP LINE ZONE: TORO DL2000 SERIES DRIPLINE (MODEL RGP-212) INSTALL IN A GRID PATTERN 12" O.C. AND 4" BELOW GRADE. REFER TO DETAIL FOR INSTALLATION INSTRUCTIONS.

Irrigation Consultant:
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CMG
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500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Date
11/30/2014
STATE OF CALIFORNIA



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE
HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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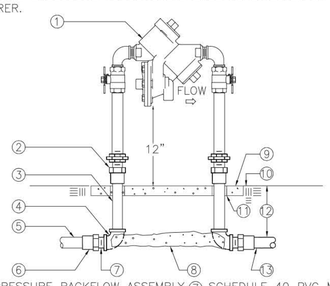
Description:
RE-BID SET

Job No: LEN 0601
Date: 11 NOV 2014

Sheet Title:
Irrigation Legend and Notes

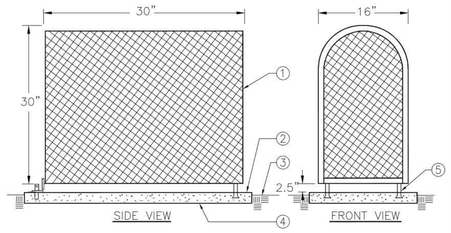
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NOTES:
1. INSTALL A FREEZE PREVENTATIVE BLANKET AROUND BACKFLOW ASSEMBLY. BLANKET SHALL BE GREEN AND MANUFACTURED BY THE STRONGBOX.
2. DO NOT SOLDER CONNECT FITTINGS WHILE THREADED INTO BACKFLOW ASSEMBLY. DAMAGE MAY OCCUR.
3. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS BACKFLOW ASSEMBLY.
4. PROVIDE A COAST GUARD SHACK HINGED OR ACCEPTED EQUAL 32"x 30"x 18" BACKFLOW PREVENTER ENCLOSURE TO COMPLETELY ENCLOSE DEVICE. INSTALL ENCLOSURE TO CONCRETE BASE AS DIRECTED BY MANUFACTURER.



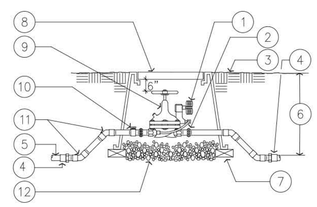
① REDUCED PRESSURE BACKFLOW ASSEMBLY
② WROT COPPER MALE ADAPTER–2 TOTAL (SOLDER X THREAD CONNECTION)
③ COPPER TYPE "K" PIPE (LENGTH AS REQUIRED)
④ WROT COPPER 90° ELBOW–2 TOTAL (SOLDER X THREAD CONNECTION)
⑤ PVC MAIN LINE TO POINT OF CONNECTION
⑥ BUSH AS NECESSARY FOR SIZE TRANSITION
⑦ SCHEDULE 40 PVC MALE ADAPTER–2 TOTAL
⑧ CONCRETE SUPPORT BLOCK
⑨ CONCRETE PAD–SEE ENCLOSURE DETAIL
⑩ FINISH GRADE
⑪ PVC SLEEVE BOTH SIDES
⑫ REFER TO IRRIGATION LEGEND
⑬ PVC MAIN LINE TO IRRIGATION SYSTEM

1 REDUCED PRESSURE BACKFLOW ASSEMBLY
SCALE: NONE
DET: RPB–1



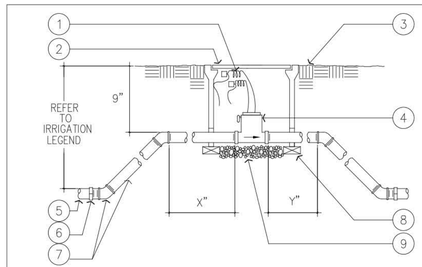
① STAINLESS STEEL ENCLOSURE
② SET PAD 1/2" ABOVE FINISH GRADE
③ FINISH GRADE
④ 6" THICK CLASS "B" CONCRETE PAD FOR ENCLOSURE SUPPORT TO EXTEND 6" BEYOND ENCLOSURE ON ALL SIDES. CONCRETE TO HAVE MEDIUM BROOM FINISH.
⑤ MOUNTING BRACKETS (STANDARD WITH ENCLOSURE) TO BE SET INTO CONCRETE PAD. PROVIDE LOCKING TAB TO ACCEPT PADLOCK PER MANUFACTURER'S INSTRUCTION.

2 BACKFLOW PREVENTER ENCLOSURE
SCALE: NONE
DET: ENC–SMOOTH



1. VALVE CONTROL WIRE(1–BLUE, 1–WHITE) – PROVIDE 3M–DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL
2. SCHEDULE 80 PVC THREADED UNION (2 TOTAL)
3. FINISH GRADE
4. SCHEDULE 80 PVC MALE ADAPTER (2 TOTAL)
5. PVC MAIN LINE
6. REFER TO IRRIGATION LEGEND
7. BRICK – 1 EACH CORNER OF VALVE BOX
8. RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX – NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL. TOP DIMENSION AS FOLLOWS:
   A. FOR 2" AND SMALLER MASTER CONTROL VALVES INSTALL A VALVE BOX WITH AN OUTSIDE TOP DIMENSION OF 11 3/4" X 17" X 12" DEEP.
   B. FOR 2 1/2" & LARGER MASTER CONTROL VALVES INSTALL A VALVE BOX WITH A MINIMUM OUTSIDE TOP DIMENSION OF 16" X 25 1/2" X 15" DEEP.
9. MASTER CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED
10. THREADED BRONZE BALL VALVE IN 1 1/2" AND SMALLER ASSEMBLIES, THREADED BRONZE GATE VALVE IN 2" AND LARGER ASSEMBLIES. 1 1/2" AND LARGER TO BE CONTAINED IN SEPARATE ROUND BOX – UP STREAM.
11. SCHEDULE 80 PVC NIPPLES (TBE) AND 45 THREADED ELBOWS (TYPICAL FOR BOTH SIDES OF VALVE)
12. PEA GRAVEL – 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
13. SENSOR WIRE FROM CONTROLLER TO VALVE BOX IS TO BE INSTALLED IN A 1.5" SCHEDULE 80 PVC CONDUIT WITH PULL BOXES AT 200' OR LESS.

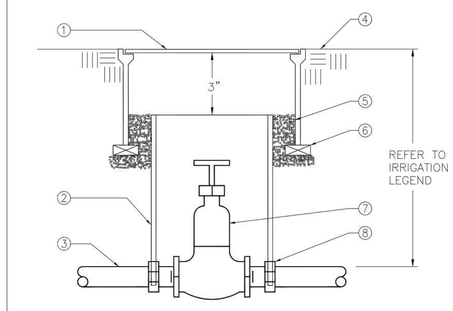
3 MASTER VALVE
SCALE: NONE
DET: ----



1. SENSOR CONTROL WIRE (1–BLACK, 1–RED): PROVIDE 3M–DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS U.F. WIRE IN A 1" DIAMETER COIL
2. RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID: TOP DIMENSION 11 3/4" X 17" (12" DEEP)
3. FINISH GRADE
4. CALSENSE MODEL FM FLOW SENSOR – WIRE TO CONTROLLER AS DIRECTED BY MANUFACTURER'S REPRESENTATIVE (SIZE AS SPECIFIED)
5. PVC MAINLINE
6. UPC APPROVED SCHEDULE 80 PVC MALE ADAPTER (2 TOTAL)
7. SCHEDULE 80 PVC THREADED NIPPLES AND 45° ELBOWS (AS REQUIRED ON BOTH SIDES OF SENSOR)
8. BRICK – 1 EACH CORNER OF VALVE BOX
9. 3/4" DRAIN ROCK – 4" DEEP BELOW SENSOR (NO SOIL IN BOX).
10. SENSOR WIRE FROM CONTROLLER TO VALVE BOX IS TO BE INSTALLED IN A 1.5" SCHEDULE 80 PVC CONDUIT WITH PULL BOXES AT 200' OR LESS..

NOTE:
THE CONTRACTOR SHALL INSTALL FLOW SENSOR TO ALLOW STRAIGHT–FLOW OF A MINIMUM OF TEN TIMES THE DIAMETER OF MAINLINE PIPE ON THE INLET (X) SIDE AND FIVE TIMES THE DIAMETER OF MAINLINE PIPE ON THE OUTLET (Y) SIDE OF THE SENSOR. REFER TO CALSENSE INSTALLATION RECOMMENDATIONS.

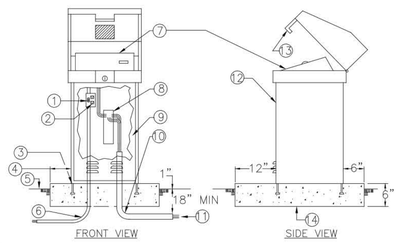
4 FLOW SENSOR
SCALE: NONE
DET: FL_SENSOR_CAL



① ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID. TOP DIMENSION: 10".
② 8" CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE)
③ PVC MAIN LINE
④ FINISH GRADE
⑤ PEA GRAVEL
⑥ BRICK–2 TOTAL
⑦ GATE VALVE
⑧ SCHEDULE 40 PVC MALE ADAPTER

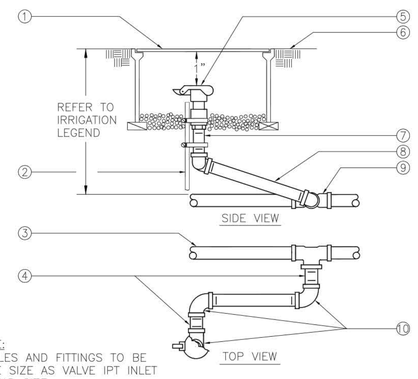
5 2 1/2" AND SMALLER GATE VALVE
SCALE: NONE
DET: SGVD

NOTES:
1. PROVIDE (CONTRACTOR) #10 BARE COPPER GROUND WIRE AND 5/8" DIA. COPPER CLAD GROUNDING ROD(S) AS DIRECTED BY MANUFACTURER.
2 INSTALL (CONTRACTOR) ENCLOSURE TO CONCRETE PAD AS DIRECTED BY ENCLOSURE MANUFACTURER.
3. INSTALL SLAB LEVEL.
4. PROVIDE SLOPE TO TOP OF SLAB SURFACE FOR DRAINAGE.



① ON/OFF SWITCH
② GFCI PROTECTED 120 VAC 15AMP RECEPTACLES
③ MOUNT ASSEMBLY (CONTRACTOR) TO MOUNTING STUDS INCLUDED WITH ENCLOSURE
④ 6" TYP. BOTH SIDES
⑤ FINISH GRADE
⑥ INSTALL (CONTRACTOR) RIGID STEEL CONDUIT FOR 120 VAC SERVICE
⑦ CONTROLLER MOUNTED ON PANEL OF ENCLOSURE
⑧ TERMINAL STRIP WITH PLACARDS FOR STATION IDENTIFICATION
⑨ HINGED FRONT PANEL
⑩ INSTALL (CONTRACTOR) SCHEDULE 40 GREY PVC ELECTRICAL CONDUITS(2) WITH SWEEP ELL FOR LOW VOLTAGE WIRE, SIZE AS REQUIRED AND EXTEND 12" BEYOND CONCRETE SLAB.
⑪ LOW VOLTAGE WIRE
⑫ STAINLESS STEEL ENCLOSURE
⑬ FLIP TOP LID
⑭ INSTALL (CONTRACTOR) CONCRETE SLAB

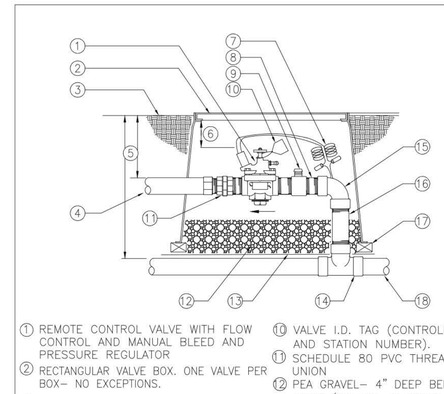
6 CONTROLLER IN ENCLOSURE
SCALE: NONE
DET: Flip–top



NOTE:
NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE

① ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID. TOP DIMENSION: 10".
② 1 1/4" x 1 1/4" x 3/16" ANGLE IRON 30" LONG W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV)
③ PVC MAIN LINE
④ 3" LONG SCHEDULE 80 PVC THREADED NIPPLE
⑤ QUICK COUPLING VALVE
⑥ FINISH GRADE
⑦ SCHEDULE 80 PVC THREADED NIPPLE
⑧ 10" LONG SHCEDULE 80 PVC THREADED NIPPLE
⑨ UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW
⑩ SCHEDULE 80 PVC THREADED 90° ELL

7 QUICK COUPLING VALVE
SCALE: NONE
DET: QUICK–C2



① REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED AND PRESSURE REGULATOR
② RECTANGULAR VALVE BOX. ONE VALVE PER BOX– NO EXCEPTIONS.
③ FINISH GRADE
④ PVC LATERAL LINE
⑤ REFER TO IRRIGATION LEGEND
⑥ 3" MIN 6" MAX
⑦ VALVE CONTROL WIRE– PROVIDE 3M–DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL
⑧ SCHEDULE 80 PVC NIPPLE
⑨ KBI SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE OR PER VALVE MANIFOLD)
⑩ VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
⑪ SCHEDULE 80 PVC THREADED UNION
⑫ PEA GRAVEL– 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX)
⑬ 22 GAUGE 1" SQUARE WIRE MESH
⑭ UPC APPROVED SCHEDULE 40 PVC TEE
⑮ SCHEDULE 80 PVC 90° ELBOW (TXT)
⑯ SCHEDULE 80 PVC NIPPLE– LENGTH AS REQUIRED.
⑰ BRICK–1 EACH CORNER
⑱ PVC MAIN LINE

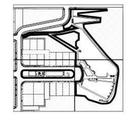
8 REMOTE CONTROL VALVE
SCALE: NONE
DET: RCV

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RON T. CONGER No. 3652
Signature
Original
Renewal 2014
Date
STATE OF CALIFORNIA



HPS Development Co.
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San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

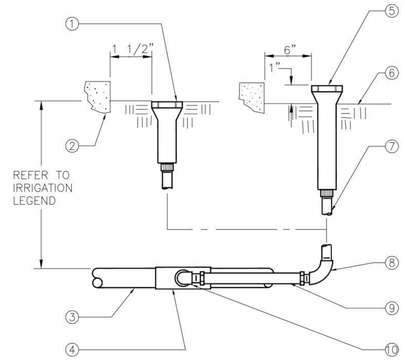
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Description:
RE-BID SET

Job No: LEN 0601
Date: 11 NOV 2014

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Irrigation Details

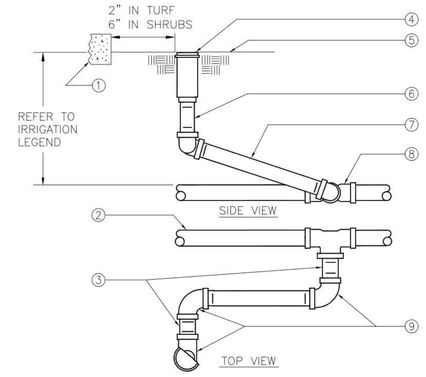
Sheet No:
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1. POP-UP LAWN SPRAY SPRINKLER
2. WALL, WALK, CURB OR BUILDING
3. PVC LATERAL LINE
4. UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW
5. POP-UP SHRUB SPRAY SPRINKLER OR BUBBLER
6. FINISH GRADE
7. 1/2" SCHEDULE 80 PVC THREADED NIPPLE (LENGTH AS REQUIRED – TYPICAL)
8. 1/2" SCHEDULE 40 PVC THREADED 90° ELL
9. COBRA CONNECTOR MODEL CC-600 (1/2"X6")
10. 1/2" SCHEDULE 40 PVC STREET ELL

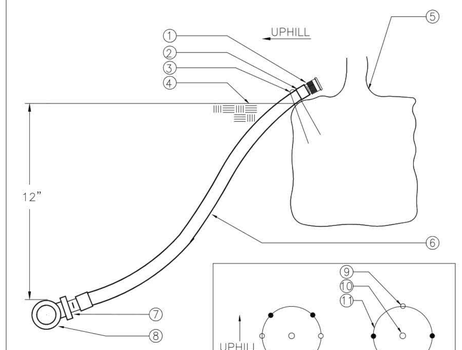
1 POP-UP SPRAY SPRINKLER RISER
SCALE: NONE
DET: SH/LW-POPSP

NOTE: 1. SET SPRINKLER 1" ABOVE FINISH GRADE AT TIME OF INSTALLATION – LOWER TO FINISH GRADE WHEN TURF IS WELL ESTABLISHED.
2. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS ROTARY SPRINKLER IPT INLET THREAD SIZE.



1. WALL, WALK, CURB OR HEADER
2. PVC LATERAL LINE
3. 3" LONG SCHEDULE 80 PVC THREADED NIPPLE
4. POP-UP ROTARY SPRINKLER
5. FINISH GRADE
6. SCHEDULE 80 PVC THREADED NIPPLE (LENGTH AS REQUIRED)
7. 10" LONG SCHEDULE 80 PVC THREADED NIPPLE
8. UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW
9. SCHEDULE 80 PVC THREADED 90° ELL

2 POP-UP ROTARY SPRINKLER RISER
SCALE: NONE
DET: LAROTARY

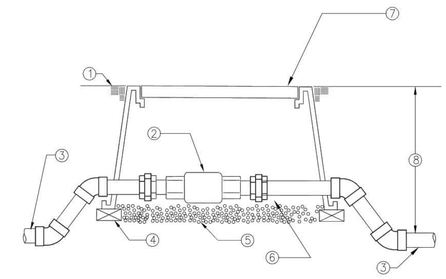


NOTE:
INSTALL 2 BUBBLER PER TREE AND 1 BUBBLER PER SHRUB

1. BUBBLER (TO BE INSTALLED ON TOP OF ROOTBALL
2. 1/2" SCH. 40 SPEARS BLACK MALE ADAPTER
3. 6" STEEL STAPLE
4. FINISH GRADE
5. TREE ROOTBALL
6. 1/2" IPS FLEXIBLE PVC
7. PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER
8. PVC LATERAL LINE
9. TREE STAKES
10. TREE
11. EDGE OF ROOTBALL (TYPICAL)

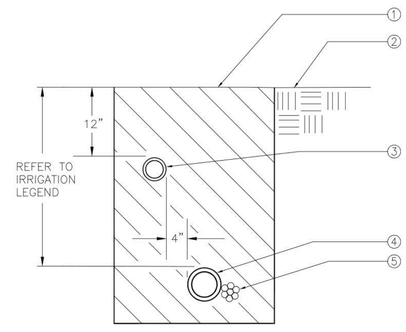
TREE BUBBLER PLACEMENT EXAMPLES

3 TREE OR SHRUB BUBBLER
SCALE: NONE
DET: TREE-SBUB



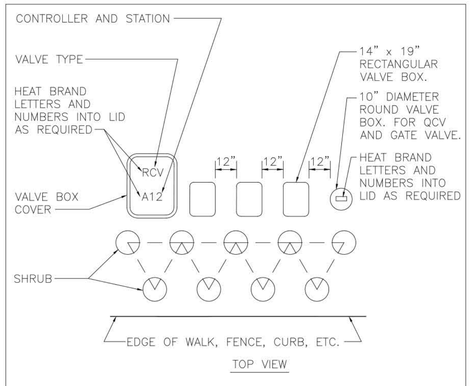
1. FINISH GRADE
2. KBI INLINE SPRING LOADED CHECK VALVE
3. PVC LATERAL LINE
4. BRICK-1 EACH CORNER
5. PEA GRAVEL-4" DEEP (NO SOIL IN VALVE BOX)
6. SCHEDULE 80 PVC SOLVENT WELD UNION-2 TOTAL
7. 10" ROUND VALVE BOX
8. LOWER PIPING TO REQUIRED DEPTH USING SCHEDULE 40 PVC 45° ELBOWS. (TYPICAL FOR BOTH SIDES OF UNIT).

4 INLINE CHECK VALVE
SCALE: NONE
DET: –



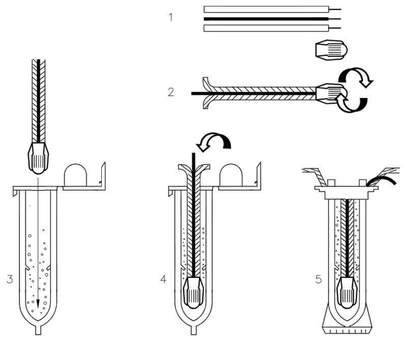
1. CLEAN BACKFILL MATERIAL
2. FINISH GRADE
3. LATERAL LINE
4. MAIN LINE
5. LOW VOLTAGE CONTROL WIRE

5 TRENCHING
SCALE: NONE
DET: TRENCH



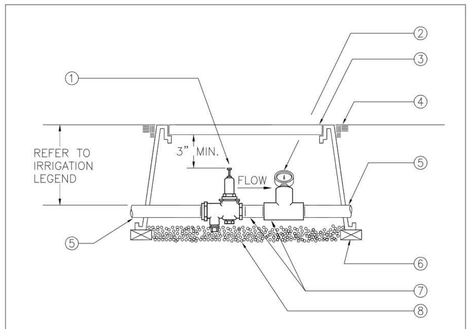
INSTRUCTIONS:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA. PLACE BEHIND SECOND ROW OF SHRUBS (TYPICAL).
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

6 VALVE BOX INSTALLATION
SCALE: NONE
DET: VALVE-B1



INSTRUCTIONS:
1. STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE.
2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
3. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
5. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

7 WEATHERPROOF SPLICE ASSEMBLY
SCALE: NONE
DET: WIRE-SPL



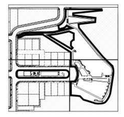
1. WILKINS MODEL 600HLR PRESSURE REDUCING VALVE
2. IRROMETER MODEL 7-100 OR APPROVED EQUAL (0-100 PSI) PRESSURE GUAGE – ROTATE TEE FOR EASE OF READING.
3. RECTANGULAR PLASTIC VALVE BOX WITH BOLT- DOWN LID. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL. TOP DIMENSION: 15 3/4" X 25 1/4" (15" DEEP)
4. FINISH GRADE
5. SCH. 80 PVC TOE NIPPLE. ADAPT TO PVC MAIN LINE WITH SCH. 40 PVC COUPLING.
6. BRICK – ONE EACH CORNER OF BOX
7. SCHEDULE 80 PVC THREADED NIPPLES AND FITTINGS AS REQUIRED
8. PEA GRAVEL – 4" DEEP (NO SOIL IN VALVE BOX)

8 PRESSURE REDUCING VALVE WITH "Y" STRAINER ASSEMBLY
SCALE: NONE
DET: PRV

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RON V. CONGER No. 3652
Signature
Original
Renewal 08/2014
Date
STATE OF CALIFORNIA



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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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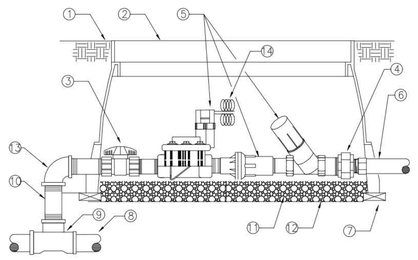
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Description:
RE-BID SET

Job No: LEN 0601
Date: 11 NOV 2014

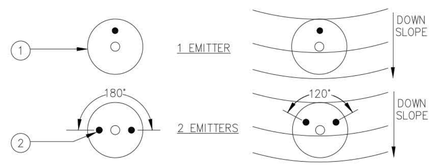
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Sheet No:
I1.05



① FINISH GRADE
② RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX– NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL. TOP DIMENSION: 11 3/4" X 17" (12" DEEP)
③ KBI UNION BALL VALVE
④ SCHEDULE 80 PVC THREADED UNION
⑤ TORO DRIP ZONE KIT
⑥ PVC LATERAL LINE
⑦ BRICK–1 EACH CORNER
⑧ PVC MAIN LINE
⑨ UPC APPROVED SCHEDULE 40 PVC TEE
⑩ SCHEDULE 80 PVC NIPPLE–(4–TOTAL) LENGTH AS REQUIRED.
⑪ PEA GRAVEL– 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX)
⑫ 22 GAUGE 1" SQUARE WIRE MESH
⑬ SCHEDULE 80 PVC 90° ELBOW (SXT)
⑭ VALVE CONTROL WIRE– PROVIDE 3M–DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL

1 REMOTE CONTROL VALVE (DRIPZONE)
SCALE: NONE
DET: RCV–FILTER

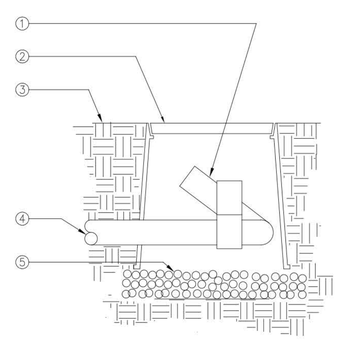


① EDGE OF ROOTBALL (TYPICAL)
② EMITTER OR DISTRIBUTION TUBE OUTLET (TYPICAL)
③ SHRUB STEM (TYPICAL)

EMITTER SCHEDULE

PLANT/ TREE SIZE	EMITTER SPECIFICATION	FLOW (GPH)/PER EMITTER OR OUTLET	QUANTITY OF EMITTERS PER SHRUB/TREE
1 GALLON SHRUBS	T–DPC04–MA	2 GPH	1
5 GALLON SHRUBS	T–DPC08–MA	2 GPH	2

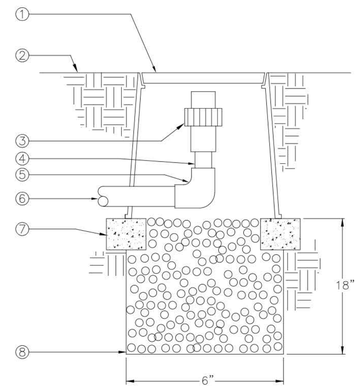
2 TORO EMITTER PLACEMENT AND SCHEDULE
SCALE: NONE
DET: EMITTER–PL/SCH



NOTE:
INSTALL A MINIMUM OF ONE END CLAMP AT THE END OF EACH DRIP ZONE REGION

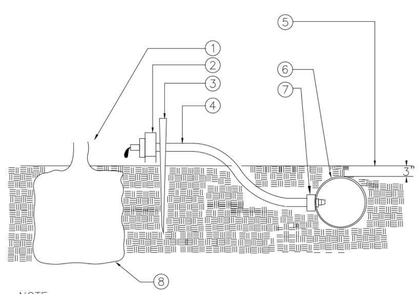
① EXTEND DRIP LINE A MINIMUM 4" BEYOND FIGURE–EIGHT END CLAMP
② 6" ROUND VALVE BOX WITH BOLT DOWN LID
③ FINISH GRADE
④ TORO BLUE STRIPE TUBING
⑤ 3" DEPTH 3/4" DRAIN ROCK

3 TORO DRIP ZONE FIGURE EIGHT END CLAMP
SCALE: NONE
DET: ----



① 6" ROUND PURPLE VALVE BOX WITH BOLT DOWN LID
② FINISH GRADE
③ AUTOMATIC FLUSH VALVE
④ BLANK DL2000 TUBING
⑤ 1/2" COMPRESSION ELL
⑥ BLANK DL2000 TUBING
⑦ BRICK SUPPORTS (TWO)
⑧ PEA GRAVEL SUMP

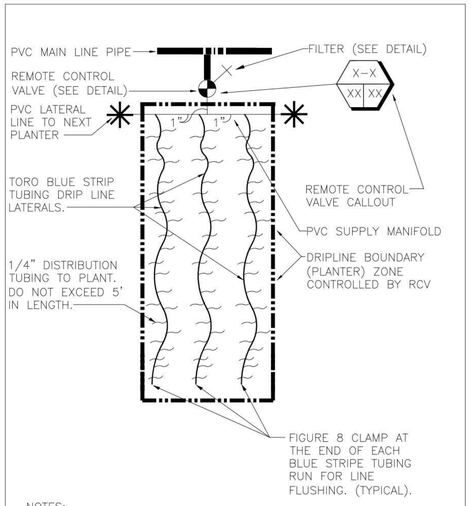
4 AUTOMATIC LINE FLUSHING VALVE FOR SUB–SURFACE DRIPLINE
SCALE: NONE
DET:



NOTE:
TO INSERT BARBED CONNECTOR INTO POLYETHYLENE TUBING, USE TORO INSERTION TOOL (FMP16). WHERE POLYETHYENE TUBING CAN BE PLACED ADJACENT TO SHRUB ROOTBALL, A BARBED EMITTER MAY BE INSTALLED DIRECTLY INTO POLYETHYENE TUBING AND DISTRIBUTION TUBING ELIMINATED. POINT OF WATER EMISSION FROM BARBED EMITTER MUST DRIP WATER DIRECTLY ON ROOTBALL.

① SHRUB STEM.
② TORO 1/4" BUG CAP (BC–025)
③ TORO 1/4" TUBING SUPPORT STAKES (IPS0104)
④ TORO 1/4" BLUE STRIPE LANDSCAPE DRIPLINE TUBING DO NOT EXCEED 5' IN LENGTH.
⑤ FINISH GRADE.
⑥ TORO 3/4" BLUE STRIPE TUBING (MODEL T–EHD2057). INSTALL 3" BELOW FINISH GRADE.
⑦ TORO EMITTER REFER TO EMITTER SCHEDULE FOR MODEL NUMBER AND QUANTITY OF EMITTERS PER PLANT.
⑧ EDGE OF ROOTBALL.

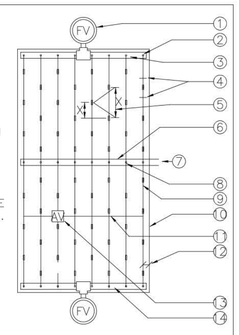
5 TORO EMITTER AND DRIP INSTALLATION WITHIN DRIPZONE
SCALE: NONE
DET: ---------



NOTES:
1. SEE IRRIGATION NOTES,LEGEND/SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL TREES TO BE PLANTED WITHIN CENTER OF DRIP LINE RUNS.
3. BURY DRIPLINE 3" BELOW GRADE.
4. ALL FITTINGS TO BE USED WILL BE PER MANUFACTURERS SPECIFICATION. TORO COMPRESSION FITTINGS OR APPROVED EQUAL.

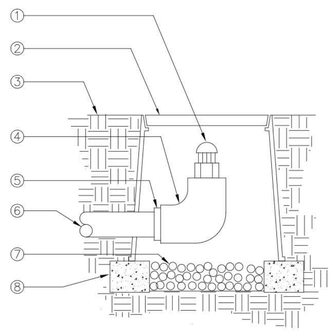
6 TORO BLUE STRIP TUBING DRIP ZONE SAMPLE LAYOUT
Scale: NONE
Det: 153

NOTES:
1. SEE IRRIGATION NOTES, LEGEND/SPECIFICATIONS FOR ADDITIONAL INFORMATION
2. ALL TREES TO BE PLANTED WITHIN CENTER OF DRIP LINE RUNS
3. BURY DRIPLINE 4" BELOW GRADE AND STAKE EACH 4' O.C. OR AS NECESSARY TO INSURE SECURITY
4. ALL FITTINGS TO BE USED WILL BE PER MANUFACTURES SPECIFICATION. TORO COMPRESSION FITTINGS OR APPROVED EQUAL.
5. INSTALL DRIPLINE PARALLEL TO CONTOUR LINES IN 12" GRID PATTERN



① ZONE FLUSH VALVE PLUMBED TO PVC (TYP)
② DRIP LINE MANIFOLD CONNECTION (PVC TO COMPRESSION)
③ PVC FLUSH EXHAUST MANIFOLD
④ METAL STAKE (TYP)
⑤ TRIANGULATE EMITTER SPACING (TYP) (SEE IRRIGATION LEGEND/SPECIFICATIONS FOR LATERAL AND IN LINE SPACING)
⑥ PVC SUPPLY MANIFOLD
⑦ SCH 40 PVC LATERAL LINE FROM REMOTE CONTROL VALVE.
⑧ DRIP LINE SUPPLY MANIFOLD CONNECTION (PVC TO TEE) (OR EQUAL)
⑨ DRIP LINE LATERAL SEE LEGEND/SPECIFICATIONS FOR LATERAL AND IN LINE SPACING
⑩ AREA PERIMETER IN LINE SPACING
⑪ AIR RELIEF LATERAL – BLANK DRIP LINE (CENTERED ON MOUND OR BERM)
⑫ PERIMETER LATERALS – LOCATE 6" FROM EDGE OF PLANTER.
⑬ AIR/VACUUM RELIEF VALVE (PLUMBED TO DRIP LINE AT EACH HIGH POINT AND AT FLUSH EXHAUST MANIFOLDS AS DETAILED).
⑭ PVC FLUSH EXHAUST MANIFOLD

7 CENTER FEED DRIPLINE SYSTEM LAYOUT
SCALE: NONE
DET: –



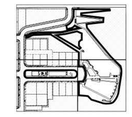
① AIR/VACUUM RELIEF VALVE
② 6" ROUND VALVE BOX WITH BOLT DOWN LID
③ FINISH GRADE
④ 1/2" PVC TEE (SxT)
⑤ 1/2" PVC TO COMPRESSION ADAPTER
⑥ BLANK DL2000 DRIPLINE FROM SUB MANIFOLD
⑦ 6" DEPTH 3/4" DRAIN ROCK
⑧ BRICK SUPPORTS (TWO)

8 AIR/VACUUM RELIEF VALVE FOR DL2000 DRIPLINE
SCALE: NONE
DET: –

Irrigation Consultant:
Russell D. Mitchell Associates, Inc.
2760 Camino Diablo
Walnut Creek, CA 94597
Phone (925) 939–3985 Email: RMA@RMAIRRIGATION.COM
Fax (925) 932–5671 RMA

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:



HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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△		
△		
△		
△		
△		

Description:
RE-BID SET

Job No: LEN 0601
Date: 11 NOV 2014

Sheet Title:
Irrigation Details

Sheet No:
I1.06

IRRIGATION CONTROLLER PROGRAMMING GUIDELINE

NOTE: PR = PRECIPITATION RATE (INCHES / HOUR)

THE CHARTS ARE INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATE APPROXIMATE RUN TIMES (IN MINUTES) FOR EACH ZONE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE FIGURES SHOWN IN THIS SCHEDULE ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECT MAXIMUM IRRIGATION REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND SPACING. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, ETC.

STEP BY STEP SCHEDULING CHART DIRECTIONS:

1. THIS PROJECT CONSISTS OF THE FOLLOWING IRRIGATION ZONES:
   - TURF
   - SHRUB AND GROUNDCOVER
   - SHRUBS WITH BUBBLERS
   - TREES WITH BUBBLERS
2. SPRAY SPRINKLERS IN TURF AND SHRUB AREAS OPERATE USING MATCHED PRECIPITATION RATE NOZZLES. SPRAY HEADS ARE SPACED AT THE MANUFACTURER'S SPECIFIED RADIUS AT 30 PSI WITH A TOLERANCE OF ±.5 FEET.
3. ROTOR HEAD SPRINKLERS IN SHRUB AREAS ARE SPACED AT 45 % OF THE MANUFACTURER'S SPECIFIED DIAMETER AT 40 PSI WITH A TOLERANCE OF ± 5 FEET.
4. DETERMINE THE PLANT TYPE OF THE PARTICULAR ZONE, IE. TURF, SHRUB, TREE BUBBLER OR SHRUB BUBBLER.
5. USE THE TURF SPRAY CHART FOR TURF SPRAY SPRINKLERS.
6. USE THE SHRUB SPRAY CHART FOR SHRUB SPRAY SPRINKLERS.
7. USE THE ROTOR HEAD CHARTS FOR ROTOR SPRINKLERS. ROTOR HEAD ZONES VARY ACCORDING TO SPACING OF THE ROTOR HEADS. MEASURE THE DISTANCE ON THE DRAWING AND REFER TO THE CORRESPONDING CHART.
8. USE THE TREE BUBBLER CHART FOR TREE BUBBLERS.
9. USE THE SHRUB BUBBLER CHART FOR SHRUB BUBBLERS.

SPRAY SPRINKLER SCHEDULE (TURF AREAS):

SPRINKLER MANUFACTURER	TORO	LOCATION	SAN FRANCISCO
PRECIPITATION RATE (INCHES/HOUR)	1	HEAD SPACING	Varies
IRRIGATION SYSTEM EFFICIENCY	0.71	HEAD GPM	Varies
PLANT FACTOR	0.8		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.78	0.96	1.2	1.27	1.25	1.07	0.73	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	47	58	72	76	75	64	44	0	0	
	YEAR 2	0	0	0	42	52	65	69	67	58	39	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	16	19	24	25	25	21	15	0	0	
	YEAR 2	0	0	0	14	17	22	23	22	19	13	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	8	10	8	8	12	11	15	0	0	
	YEAR 2	0	0	0	7	9	7	8	11	10	13	0	0	

SPRAY SPRINKLER SCHEDULE (SHRUB AND GROUNDCOVER):

SPRINKLER MANUFACTURER	TORO	LOCATION	San Francisco
PRECIPITATION RATE (INCHES/HOUR)	1	HEAD SPACING	Varies
IRRIGATION SYSTEM EFFICIENCY	0.71	HEAD GPM	Varies
PLANT FACTOR	0.4		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.39	0.48	0.6	0.64	0.62	0.53	0.36	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	23	29	36	38	37	32	22	0	0	
	YEAR 2	0	0	0	21	26	32	34	34	29	20	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	8	10	12	13	12	11	7	0	0	
	YEAR 2	0	0	0	7	9	11	11	11	10	7	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	4	5	4	4	6	5	7	0	0	
	YEAR 2	0	0	0	4	4	4	4	6	5	7	0	0	

DRIP EMITTER SCHEDULE (SHRUBS):

DRIP MANUFACTURER	TORO	LOCATION	SAN FRANCISCO
PRECIPITATION RATE (INCHES/HOUR)	N/A	HEAD SPACING	N/A
IRRIGATION SYSTEM EFFICIENCY	0.9	HEAD GPM	0.017
PLANT FACTOR	0.4		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.31	0.38	0.47	0.5	0.49	0.42	0.29	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	154	190	236	251	246	210	144	0	0	
	YEAR 2	0	0	0	139	171	212	226	222	189	129	0	0	
DAYS PER WEEK	YEAR 1	0	0	0	3	3	3	3	3	3	3	0	0	
	YEAR 2	0	0	0	3	3	3	3	3	3	3	0	0	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	51	63	79	84	82	70	48	0	0	
	YEAR 2	0	0	0	46	57	71	75	74	63	43	0	0	
CYCLES PER DAY	YEAR 1	0	0	0	2	2	3	3	2	2	1	0	0	
	YEAR 2	0	0	0	2	2	3	3	2	2	1	0	0	
MINUTES PER CYCLE	YEAR 1	0	0	0	26	32	26	28	41	35	48	0	0	
	YEAR 2	0	0	0	23	28	24	25	37	32	43	0	0	

PART CIRCLE ROTOR SPRINKLER SCHEDULE (LAWN):

SPRINKLER MANUFACTURER	HUNTER	LOCATION	SAN FRANCISCO
PRECIPITATION RATE (INCHES/HOUR)	1.2	HEAD SPACING	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.71	HEAD GPM	VARIES
PLANT FACTOR	0.8		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.78	0.96	1.2	1.27	1.25	1.07	0.73	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	39	48	60	64	62	53	36	0	0	
	YEAR 2	0	0	0	35	43	54	57	56	48	33	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	13	16	20	21	21	18	12	0	0	
	YEAR 2	0	0	0	12	14	18	19	19	16	11	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	7	8	7	7	10	9	12	0	0	
	YEAR 2	0	0	0	6	7	6	6	9	8	11	0	0	

FULL CIRCLE ROTOR SPRINKLER SCHEDULE (SHRUB):

SPRINKLER MANUFACTURER	HUNTER	LOCATION	SAN FRANCISCO
PRECIPITATION RATE (INCHES/HOUR)	0.6	HEAD SPACING	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.7	HEAD GPM	VARIES
PLANT FACTOR	0.4		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.4	0.49	0.61	0.65	0.63	0.54	0.37	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	40	49	61	65	63	54	37	0	0	
	YEAR 2	0	0	0	36	44	55	58	57	49	33	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	13	16	20	22	21	18	12	0	0	
	YEAR 2	0	0	0	12	15	18	19	19	16	11	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	7	8	7	7	11	9	12	0	0	
	YEAR 2	0	0	0	6	7	6	6	9	8	11	0	0	

PART CIRCLE ROTOR SPRINKLER SCHEDULE (SHRUB):

SPRINKLER MANUFACTURER	HUNTER	LOCATION	SAN FRANCISCO
PRECIPITATION RATE (INCHES/HOUR)	1.2	HEAD SPACING	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.71	HEAD GPM	VARIES
PLANT FACTOR	0.4		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.39	0.48	0.6	0.64	0.62	0.53	0.36	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	20	24	30	32	31	27	18	0	0	
	YEAR 2	0	0	0	18	22	27	29	28	24	16	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	7	8	10	11	10	9	6	0	0	
	YEAR 2	0	0	0	6	7	9	10	9	8	5	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	3	4	3	4	5	4	6	0	0	
	YEAR 2	0	0	0	3	4	3	3	5	4	5	0	0	

BUBBLER SCHEDULE (SHRUB):

SPRINKLER MANUFACTURER	TORO	LOCATION	San Francisco
PRECIPITATION RATE (INCHES/HOUR)	0.85	HEAD SPACING	N/A
IRRIGATION SYSTEM EFFICIENCY	0.85	HEAD GPM	0.25
PLANT FACTOR	0.4		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.33	0.4	0.5	0.53	0.52	0.45	0.3	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	23	28	35	38	37	31	21	0	0	
	YEAR 2	0	0	0	21	26	32	34	33	28	19	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	8	9	12	13	12	10	7	0	0	
	YEAR 2	0	0	0	7	9	11	11	11	9	6	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	4	5	4	4	6	5	7	0	0	
	YEAR 2	0	0	0	3	4	4	4	6	5	6	0	0	

BUBBLER SCHEDULE (TREE):

SPRINKLER MANUFACTURER	TORO	LOCATION	San Francisco
PRECIPITATION RATE (INCHES/HOUR)	0.85	HEAD SPACING	N/A
IRRIGATION SYSTEM EFFICIENCY	0.85	HEAD GPM	1
PLANT FACTOR	0.4		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.33	0.4	0.5	0.53	0.52	0.45	0.3	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	23	28	35	38	37	31	21	0	0	
	YEAR 2	0	0	0	21	26	32	34	33	28	19	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	8	9	12	13	12	10	7	0	0	
	YEAR 2	0	0	0	7	9	11	11	11	9	6	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	4	5	4	4	6	5	7	0	0	
	YEAR 2	0	0	0	3	4	4	4	6	5	6	0	0	

FULL CIRCLE ROTOR SPRINKLER SCHEDULE (LAWN):

SPRINKLER MANUFACTURER	HUNTER	LOCATION	SAN FRANCISCO
PRECIPITATION RATE (INCHES/HOUR)	0.6	HEAD SPACING	VARIES
IRRIGATION SYSTEM EFFICIENCY	0.7	HEAD GPM	VARIES
PLANT FACTOR	0.8		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.79	0.98	1.21	1.29	1.27	1.08	0.74	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	79	98	121	129	127	108	74	0	0	
	YEAR 2	0	0	0	71	88	109	116	114	97	66	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	26	33	40	43	42	36	25	0	0	
	YEAR 2	0	0	0	24	29	36	39	38	32	22	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	13	16	13	14	21	18	25	0	0	
	YEAR 2	0	0	0	12	15	12	13	19	16	22	0	0	

IRRIGATION WATER USE ESTIMATES:

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)
185,782.2

HYDROZONE CALCULATION TABLE (ETWU)
ETO= 27.9

HYDROZONE/VALVE #	PLANT TYPE/ WATER USE	IRRIGATION EFFICIENCY (IE)	PLANT FACTOR (PF)	AREA (HA) (SQ. FT)	PF x HA	ETWU
D-1	TREE-MEDIUM	0.9	0.5	1425	712.5	13694.3
D-2	SHRUB-MED/LOW	0.9	0.4	2991	1196.4	22994.8
D-3	LAWN-MEDIUM	0.71	0.5	1830	915	22292.5
D-4	LAWN-MEDIUM	0.71	0.5	1099	549.5	13387.7
D-5	LAWN-MEDIUM	0.71	0.5	1135	567.5	13826.2
D-6	SHRUB-LOW	0.9	0.4	1069	427.6	8218.5
D-7	TREE-MEDIUM	0.9	0.5	1350	675	12973.5
D-8	SHRUB-MED/LOW	0.9	0.4	2205	882	16952.0
D-9	LAWN-MEDIUM	0.71	0.5	918	459	11182.8
D-10	SHRUB-MED/LOW	0.9	0.4	1321	528.4	10155.8
			Total sq. ft=	15343		
			ESTIMATED TOTAL WATER USE (gallons)=			**145,678.1**

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)
879,532.4

HYDROZONE CALCULATION TABLE (ETWU)
ETO= 27.9

HYDROZONE/VALVE #	PLANT TYPE/ WATER USE	IRRIGATION EFFICIENCY (IE)	PLANT FACTOR (PF)	AREA (HA) (SQ. FT)	PF x HA	ETWU
E-1	LAWN-MEDIUM	0.71	0.5	5044	2522	61444.4
E-2	TREE-MEDIUM	0.9	0.5	600	300	5766.0
E-3	LAWN-MEDIUM	0.71	0.5	2041	1020.5	24862.8
E-4	SHRUB-LOW	0.71	0.3	2854	856.2	20859.9
E-5	TREE-MED/LOW	0.9	0.4	900	360	6919.2
E-6	SHRUB-LOW	0.71	0.3	5061	1518.3	36990.9
E-7	SHRUB-LOW	0.71	0.3	1335	400.5	9757.5
E-8	SHRUB-LOW	0.9	0.3	1082	324.6	6238.8
E-9	LAWN-MEDIUM	0.71	0.5	5182	2591	63125.5
E-10	SHRUB-LOW	0.71	0.3	1300	390	9501.7
E-11	LAWN-MEDIUM	0.71	0.5	1830	915	22292.5
E-12	SHRUB-LOW	0.71	0.3	1635	490.5	11950.2
E-13	SHRUB-LOW	0.71	0.3	513	153.9	3749.5
E-14	SHRUB-LOW	0.71	0.3	2129	638.7	15560.9
E-15	LAWN-MEDIUM	0.71	0.5	1748	874	21293.6
E-16	LAWN-MEDIUM	0.71	0.5	3541	1770.5	43135.4
E-17	LAWN-MEDIUM	0.71	0.5	1659	829.5	20209.4
E-18	SHRUB-LOW	0.9	0.3	2809	842.7	16196.7
E-19	TREE-MEDIUM	0.9	0.5	525	262.5	5045.3
E-20	TREE-MED/LOW	0.9	0.4	2025	810	15568.2
E-21	SHRUB-LOW	0.71	0.3	1991	597.3	14552.2
E-22	SHRUB-LOW	0.71	0.3	1645	493.5	12023.3
E-23	SHRUB-LOW	0.71	0.3	721	216.3	5269.8
E-24	SHRUB-LOW	0.71	0.3	3647	1094.1	26656.0
E-25	SHRUB-LOW	0.71	0.3	1941	582.3	14186.8
E-26	LAWN-MEDIUM	0.71	0.5	1539	769.5	18747.6
E-27	TREE-MEDIUM	0.71	0.5	525	262.5	6395.4
E-28	LAWN-MEDIUM	0.9	0.5	1320	660	12685.2
E-29	LAWN-MEDIUM	0.71	0.5	789	394.5	9611.4
E-30	SHRUB-MED/LOW	0.71	0.4	1665	666	16226.0
E-31	SHRUB-MED/LOW	0.71	0.4	2425	970	23632.5
E-32	SHRUB-MED/LOW	0.71	0.4	1625	650	15836.2
E-33	SHRUB-MED/LOW	0.71	0.4	1652	660.8	16099.3
E-34	SHRUB-MED/LOW	0.71	0.4	313	125.2	3050.3
E-35	SHRUB-MED/LOW	0.71	0.4	6035	2414	58813.2
E-36	SHRUB-MED/LOW	0.71	0.4	991	396.4	9657.6
			Total sq. ft=	72637		
			ESTIMATED TOTAL WATER USE (gallons)=			**683911.4**

WATER USE FORMULAS USED:

Estimated Water Use (EWU) Gallons Per Year

$$EWU = \frac{(ETo)(PF)(HA)(.62)}{IE}$$

ETo = Reference evapotranspiration
PF = Plant factor for hydrozones
HA = Hydrozone area (square feet)
0.62 = Conversion factor (gallons per square foot per year)
IE = Irrigation efficiency (0.71) overhead spray
IE = Irrigation efficiency (0.90) bubblers

Maximum Applied Water Use (MAWU) Gallons Per Year

MAWU = (ETo)(0.7)(LA)(0.62)

ETo = Reference evapotranspiration
0.7= ET adjustment factor
LA=Landscaped Area (square feet)
0.62 = Conversion factor (gallons per square foot per year)

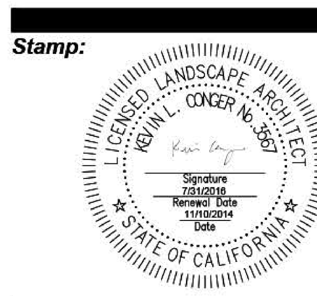
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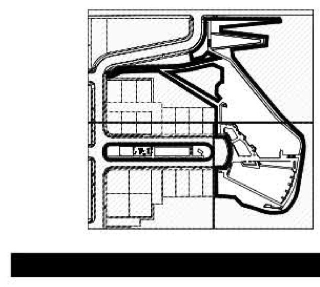
SPRINKLER MANUFACTURER	TORO	LOCATION	San Francisco
PRECIPITATION RATE (INCHES/HOUR)	0.9	HEAD SPACING	N/A
IRRIGATION SYSTEM EFFICIENCY	0.85	HEAD GPM	0.25
PLANT FACTOR	0.4		
YEAR 2 REDUCTION AMOUNT	-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES		

	MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES)		0.00	0.00	0.00	3.00	3.70	4.60	4.90	4.80	4.10	2.80	0.00	0.00	27.90
ETO PER WEEK (INCHES)		0	0	0	0.69	0.85	1.06	1.13	1.11	0.95	0.65	0	0	
APPLIED ETO PER WEEK (INCHES)		0	0	0	0.33	0.4	0.5	0.53	0.52	0.45	0.3	0	0	
MINUTES OF WATER PER WEEK	YEAR 1	0	0	0	22	27	33	35	35	30	20	0	0	
	YEAR 2	0	0	0	20	24	30	32	31	27	18	0	0	
DAYS PER WEEK	YEAR 1	1	2	3	3	3	3	3	3	3	3	2	1	
	YEAR 2	1	2	3	3	3	3	3	3	3	3	2	1	
MINUTES OF WATER PER DAY	YEAR 1	0	0	0	7	9	11	12	12	10	7	0	0	
	YEAR 2	0	0	0	7	8	10	11	10	9	6	0	0	
CYCLES PER DAY	YEAR 1	1	1	1	2	2	3	3	2	2	1	1	1	
	YEAR 2	1	1	1	2	2	3	3	2	2	1	1	1	
MINUTES PER CYCLE	YEAR 1	0	0	0	4	4	4	4	6	5	7	0	0	
	YEAR 2	0	0	0	3	4	3	4	5	4	6	0	0	

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
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FACSIMILE: 415/495-3080

Stamp:





HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
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6	100% CD'S - 2nd Submittal	3.07.12
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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

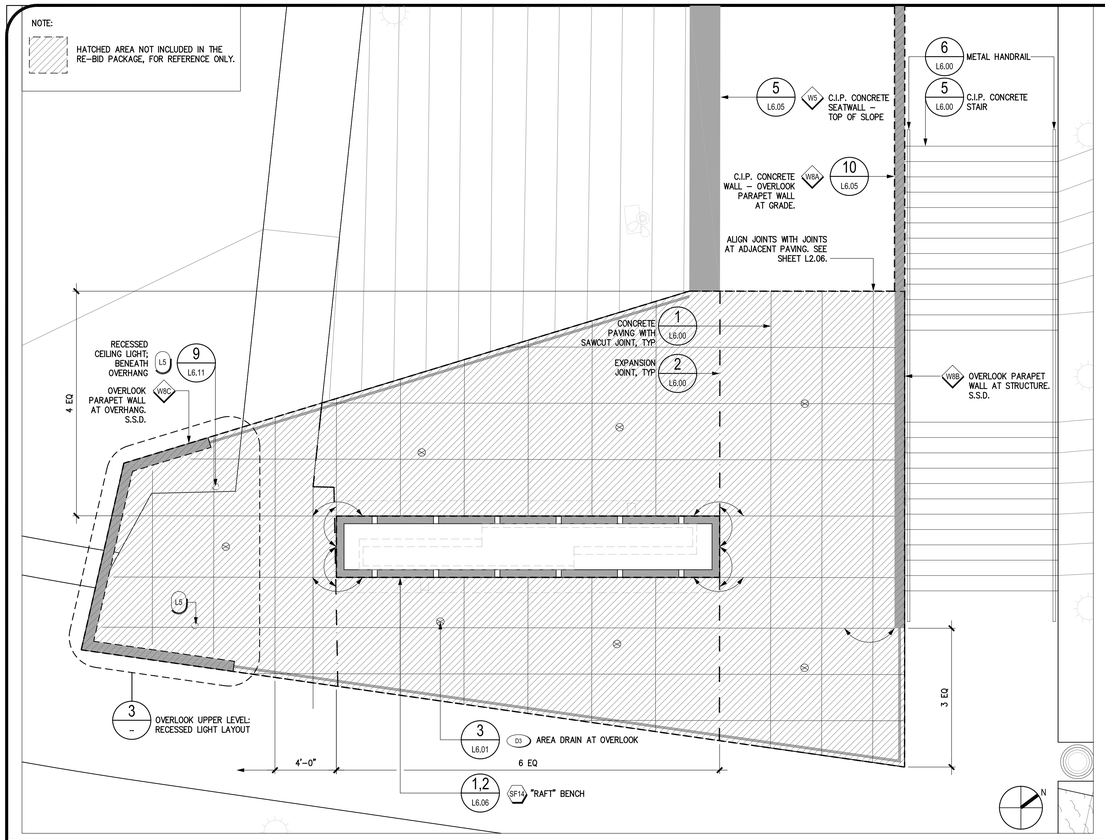
No:	Revision	Date:
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Description:
RE-BID SET

Job No: LEN 0601
Date: 11 NOV 2014

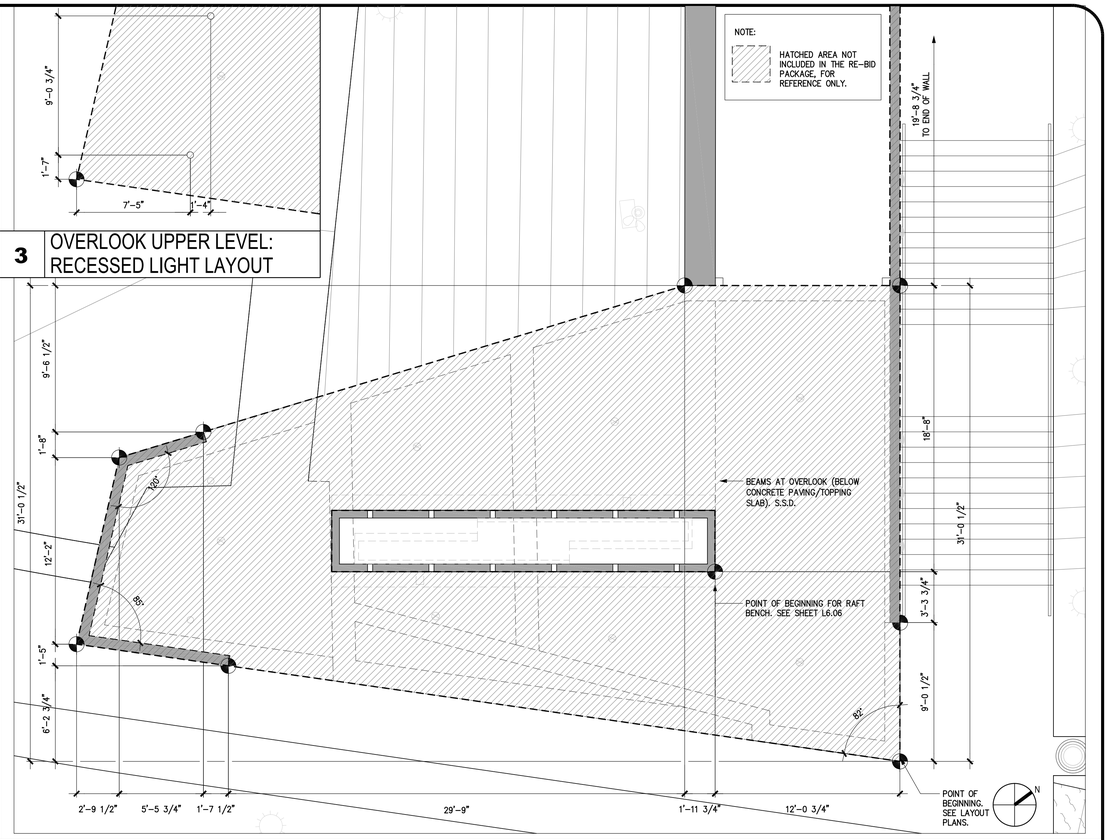
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Irrigation Schedules and Calculations

Sheet No:
I1.07

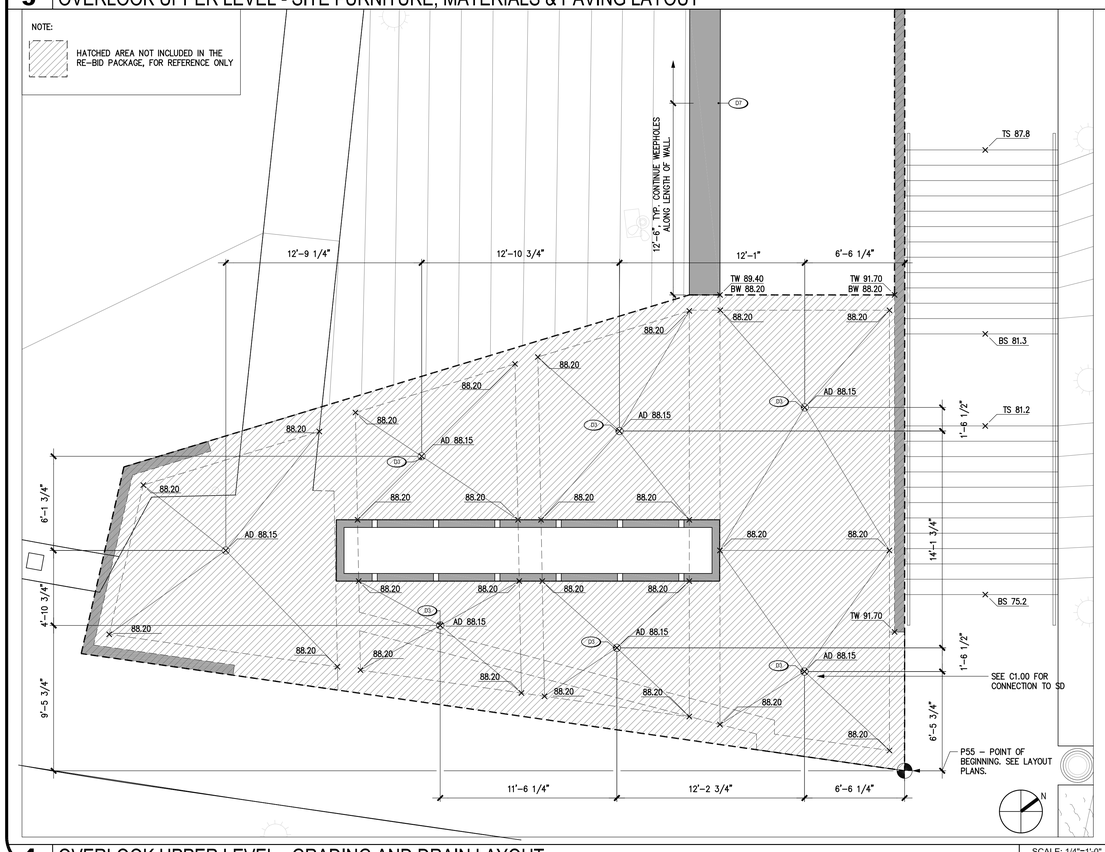


5 OVERLOOK UPPER LEVEL - SITE FURNITURE, MATERIALS & PAVING LAYOUT

SCALE: 1/4"=1'-0"

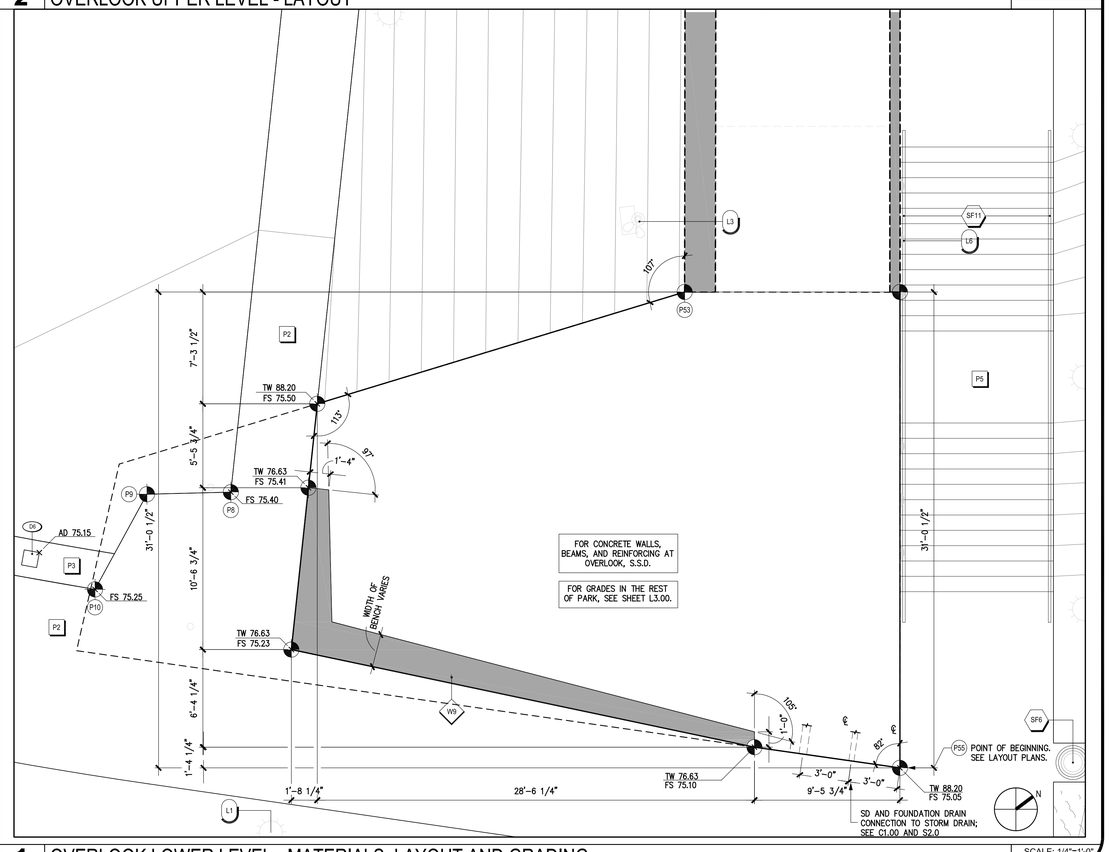


3 OVERLOOK UPPER LEVEL: RECESSED LIGHT LAYOUT



4 OVERLOOK UPPER LEVEL - GRADING AND DRAIN LAYOUT

SCALE: 1/4"=1'-0"



2 OVERLOOK UPPER LEVEL - LAYOUT

SCALE: 1/4"=1'-0"

1 OVERLOOK LOWER LEVEL - MATERIALS, LAYOUT AND GRADING

SCALE: 1/4"=1'-0"

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LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/15
Renewal Date
Date
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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Description:

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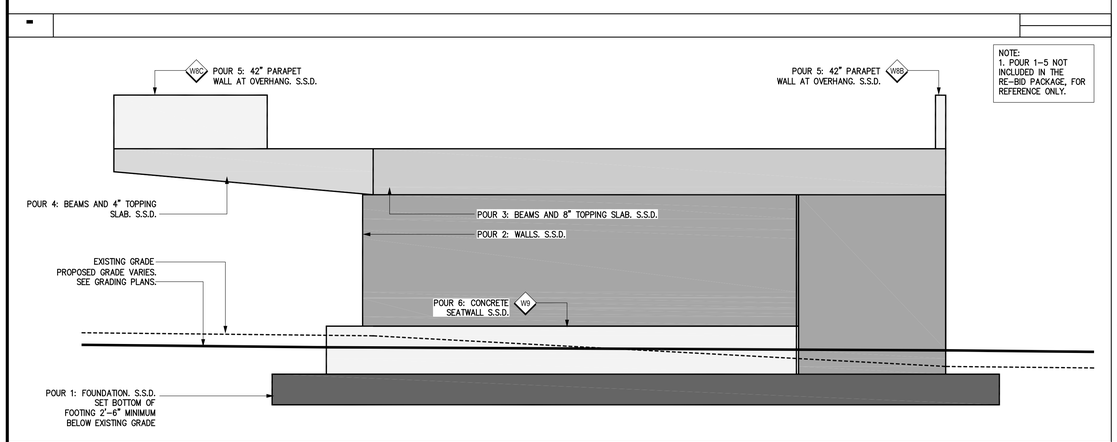
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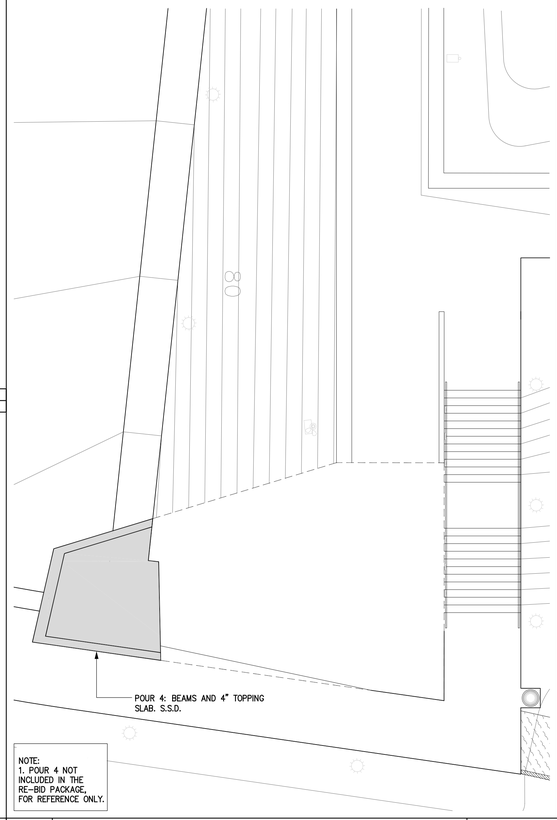
Overlook Layout & Grading Plans

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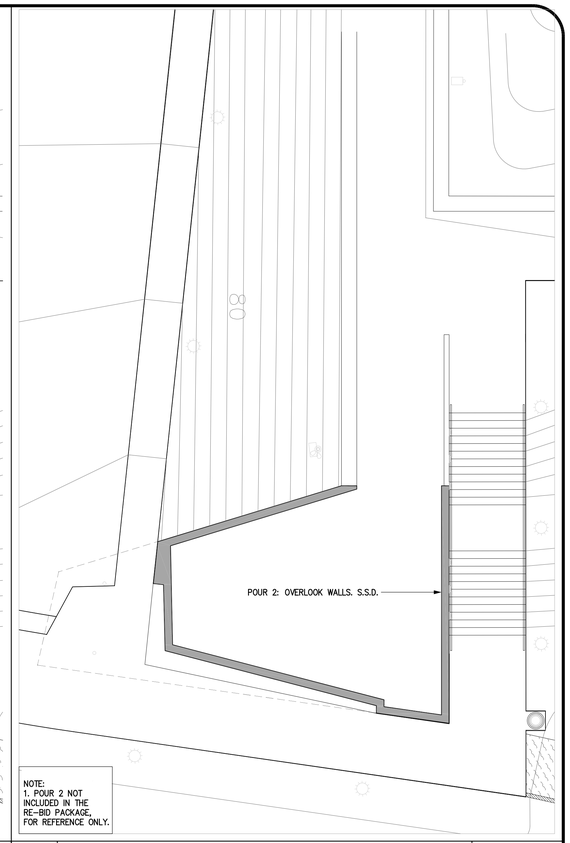
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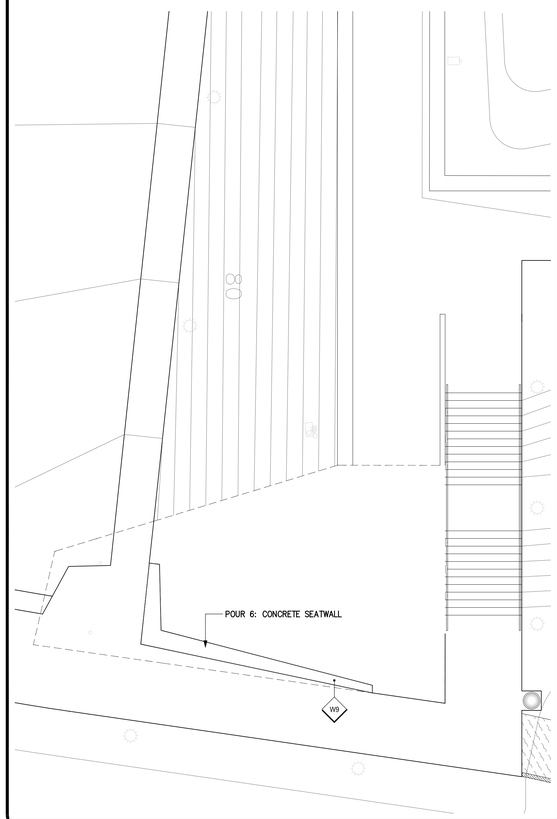
6 OVERLOOK ELEVATION: POUR LOCATIONS — SCALE: 1/4"=1'-0"



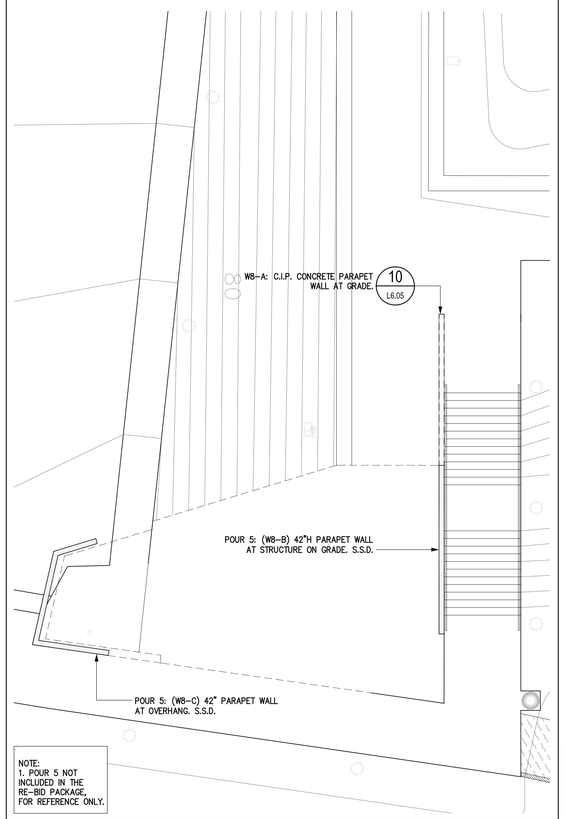
4 POUR 4 @ OVLK: BEAMS AND 4" TOPPING SLAB — SCALE: 1/8"=1'-0"



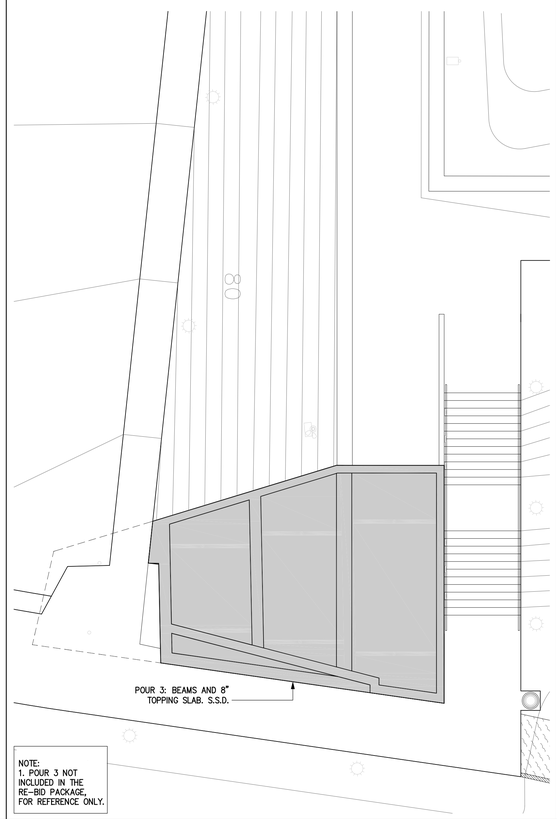
2 POUR 2 @ OVLK: WALLS — SCALE: 1/8"=1'-0"



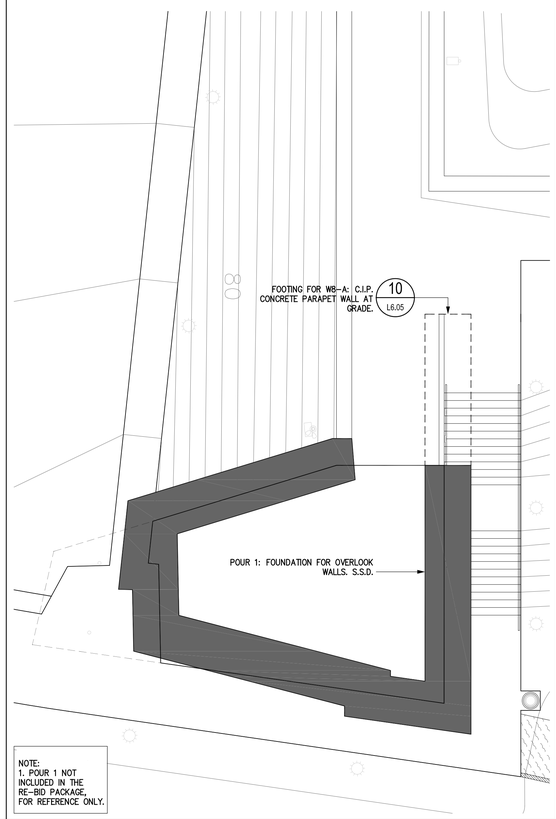
6 POUR 6 @ OVLK: GROUND LEVEL WALL — SCALE: 1/8"=1'-0"



5 POUR 5 @ OVLK: PARAPET WALLS — SCALE: 1/8"=1'-0"



3 POUR 3 @OVLK: BEAMS AND 8" TOPPING SLAB — SCALE: 1/8"=1'-0"



1 POUR 1 @ OVLK: FOOTINGS — SCALE: 1/8"=1'-0"

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FACSIMILE: 415/495-3080

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LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3580
Signature
11/10/2014
Date
11/10/2014
Date
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
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12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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Description:

RE-BID SET

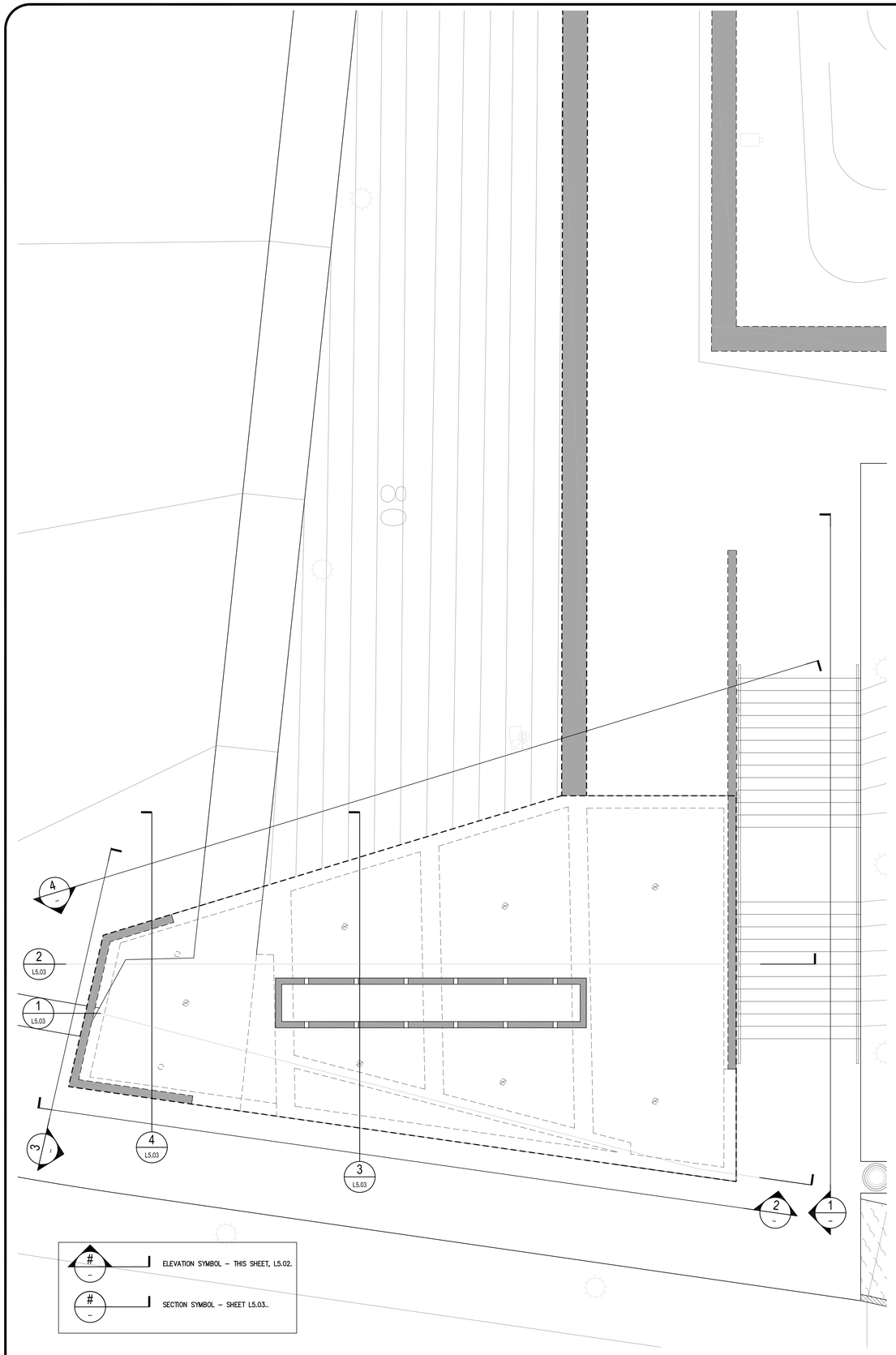
Job No: LEN 0601
Date: 10 NOV 2014

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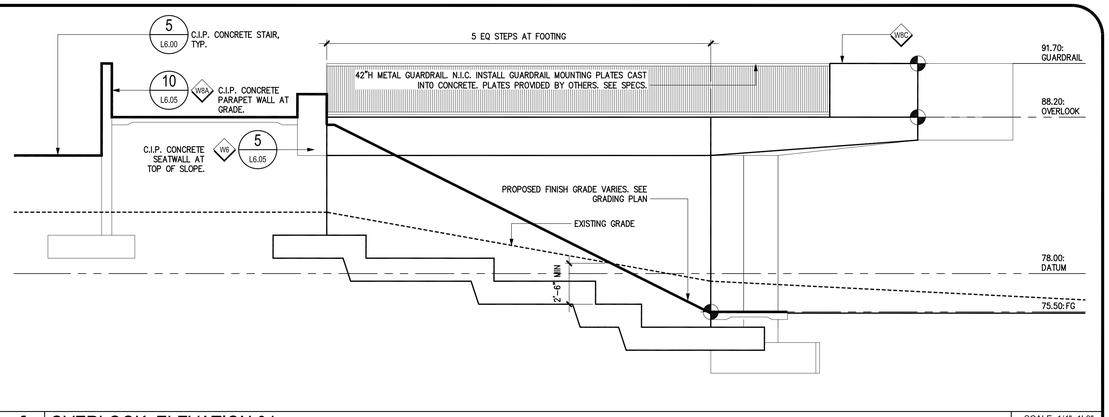
Overlook
Pour Plan

Sheet No:

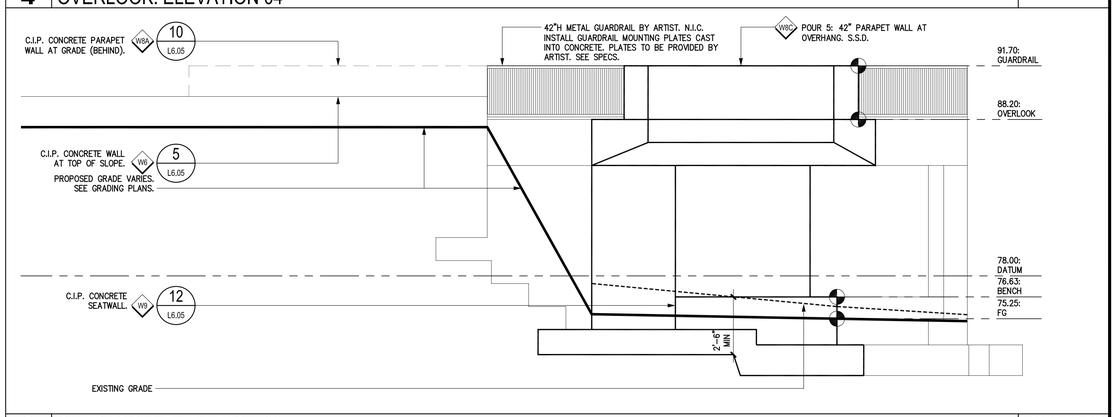
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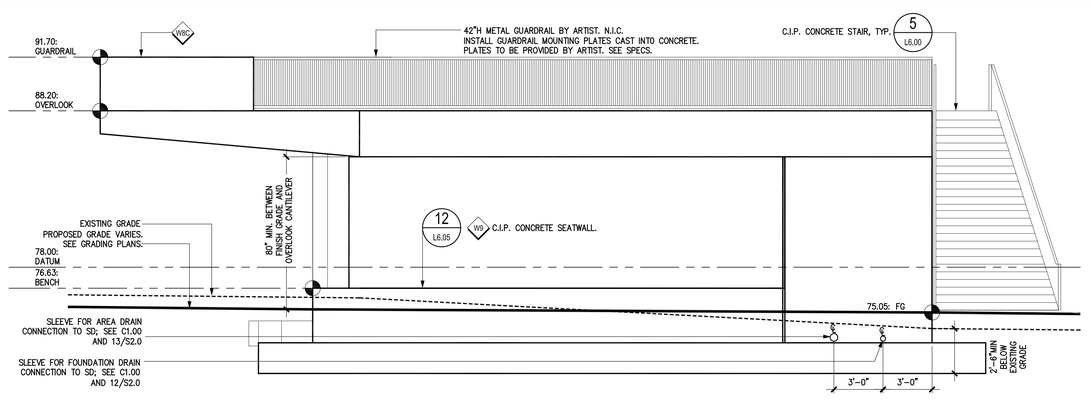
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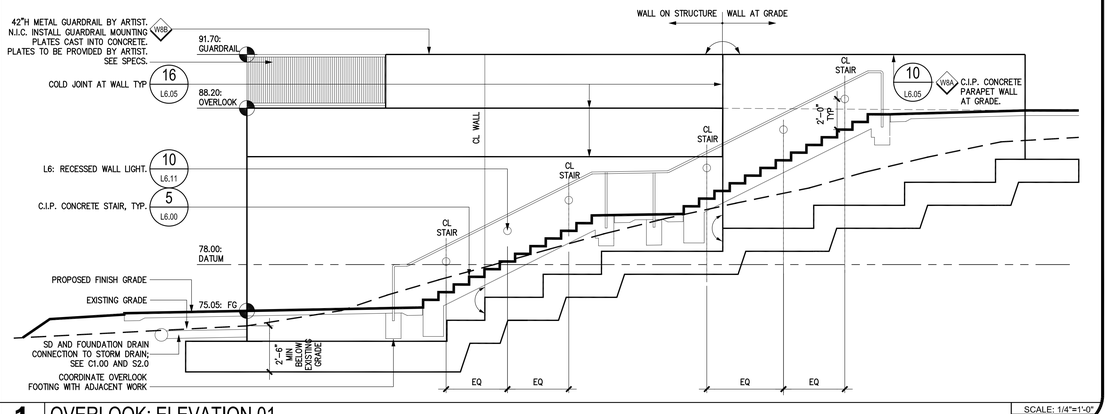
4 OVERLOOK: ELEVATION 04 — SCALE: 1/4"=1'-0"



3 OVERLOOK: ELEVATION 03 — SCALE: 1/4"=1'-0"



2 OVERLOOK: ELEVATION 02 — SCALE: 1/4"=1'-0"



1 OVERLOOK: ELEVATION 01 — SCALE: 1/4"=1'-0"

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Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/15
Renewal Date
Original
10/28/14
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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Description:

RE-BID SET

Job No: LEN 0601
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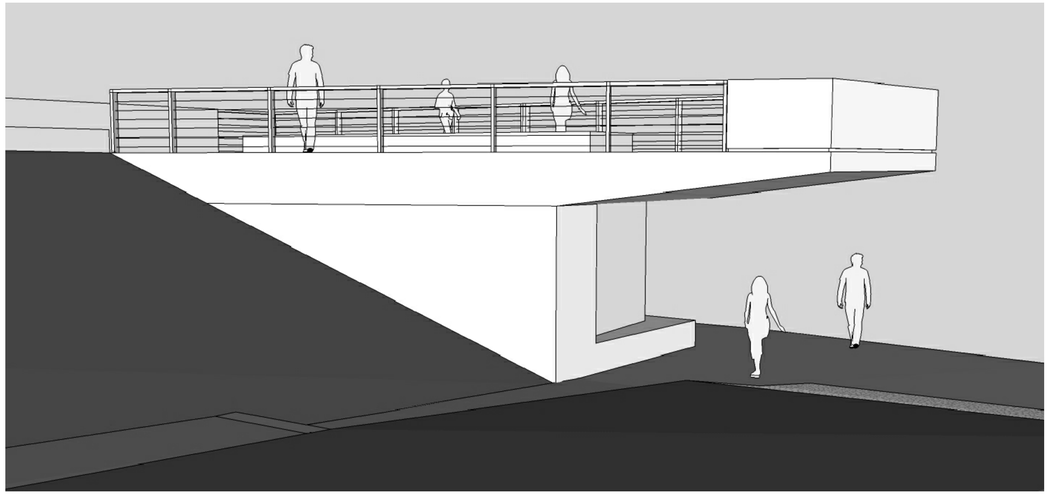
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Sheet Title:

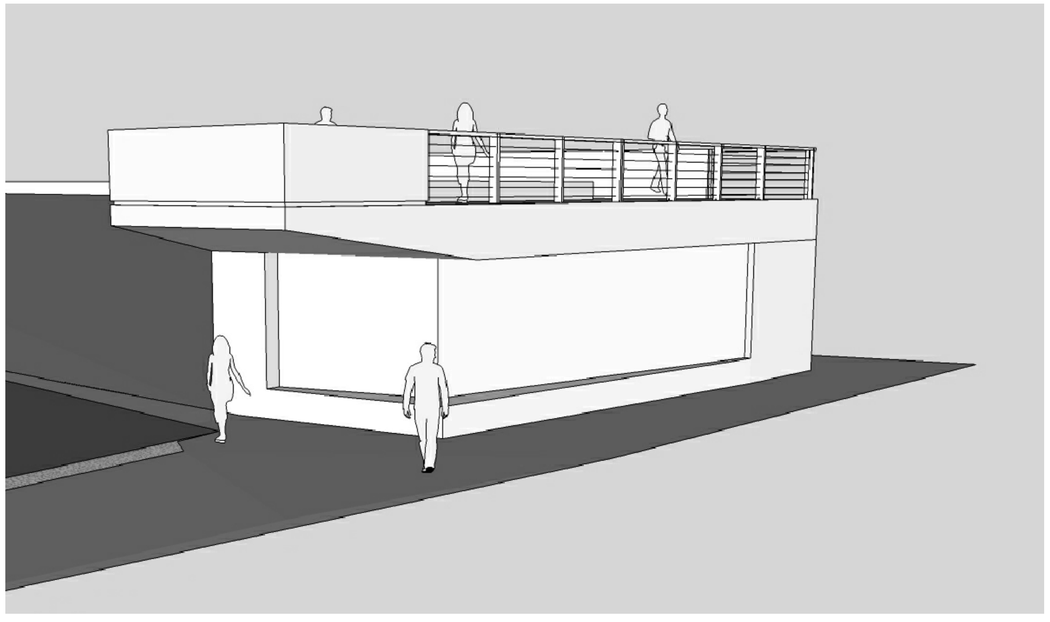
Overlook Elevations

Sheet No:

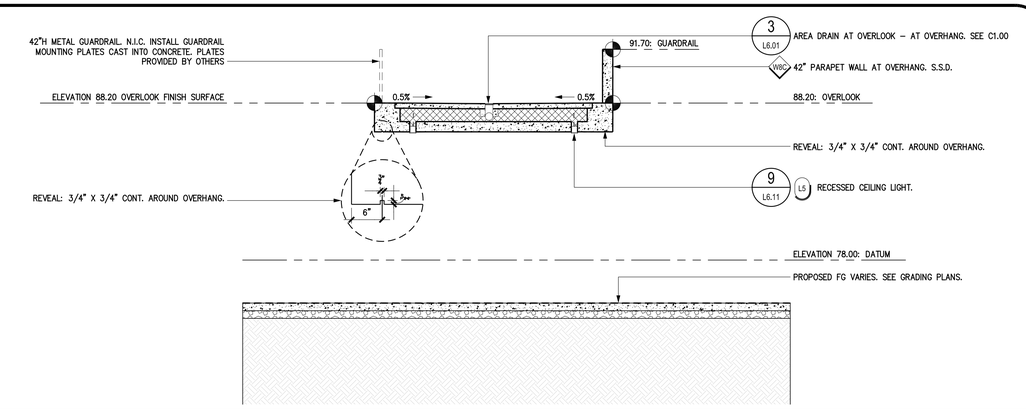
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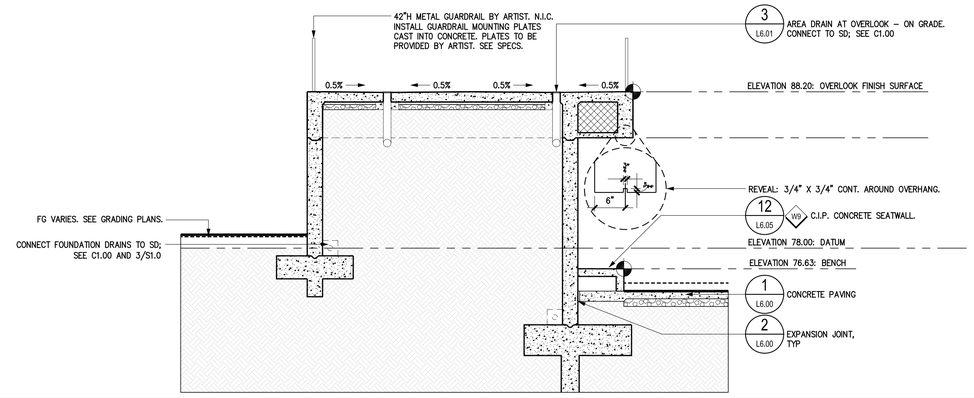
6 OVERLOOK: PERSPECTIVE 02



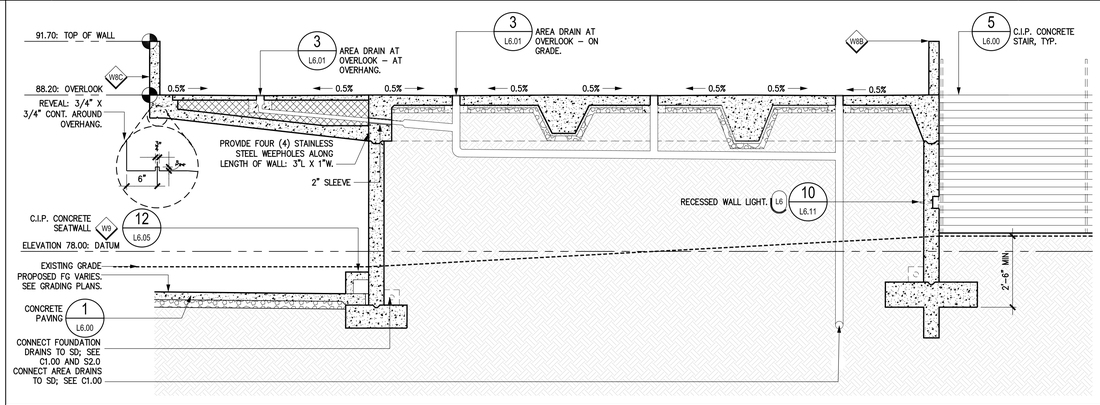
5 OVERLOOK: PERSPECTIVE 01



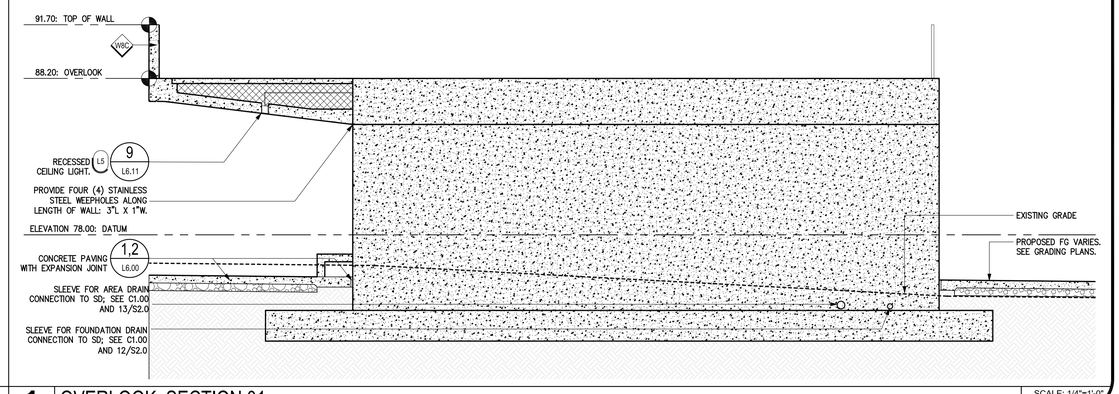
4 OVERLOOK: SECTION 04 — SCALE: 1/4"=1'-0"



3 OVERLOOK: SECTION 03 — SCALE: 1/4"=1'-0"



2 OVERLOOK: SECTION 02 — SCALE: 1/4"=1'-0"



1 OVERLOOK: SECTION 01 — SCALE: 1/4"=1'-0"

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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

THIS SHEET IS NOT INCLUDED IN THE RE-BID PACKAGE, FOR REFERENCE ONLY

Sheet Title:

Overlook Sections & Perspectives

Sheet No:

L5.03

8 NOT USED

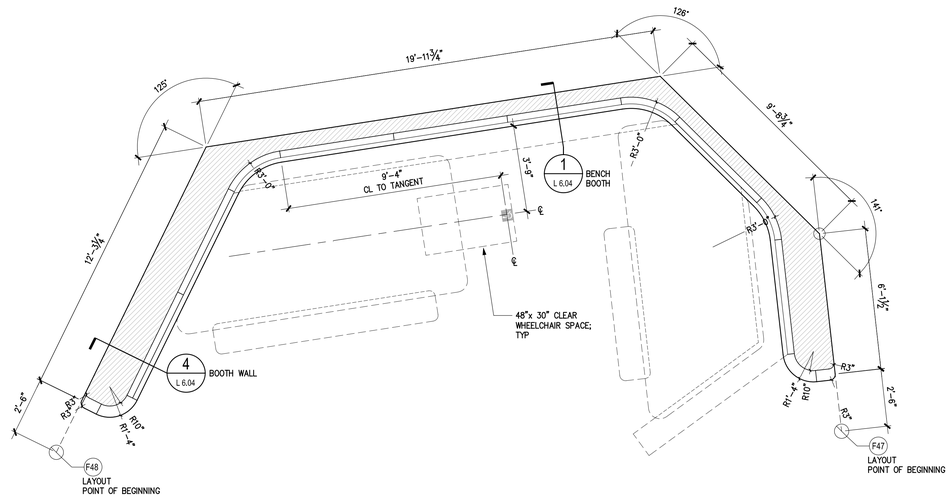
7 NOT USED

6 NOT USED

5 NOT USED

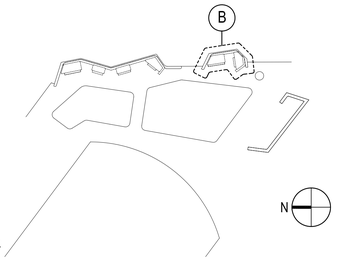
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3 NOT USED

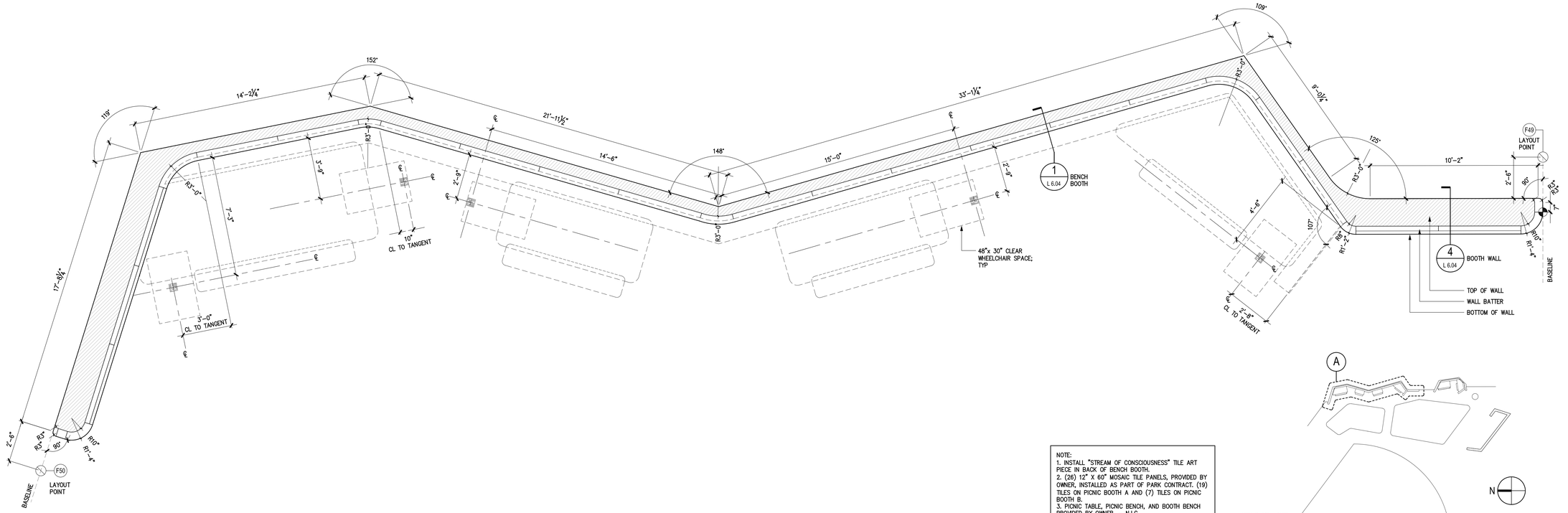


2 CAST IN PLACE BENCH - PICNIC BOOTH B — SCALE: 3/8"=1'-0"

NOTE:
1. PICNIC TABLE, PICNIC BENCH, AND BOOTH BENCH PROVIDED BY OWNER. – N.I.C.



KEY PLAN : NTS



NOTE:
1. INSTALL "STREAM OF CONSCIOUSNESS" TILE ART PIECE IN BACK OF BENCH BOOTH.
2. (26) 12" X 60" MOSAIC TILE PANELS, PROVIDED BY OWNER, INSTALLED AS PART OF PARK CONTRACT. (19) TILES ON PICNIC BOOTH A AND (7) TILES ON PICNIC BOOTH B.
3. PICNIC TABLE, PICNIC BENCH, AND BOOTH BENCH PROVIDED BY OWNER. – N.I.C.

KEY PLAN : NTS

1 CAST IN PLACE BENCH - PICNIC BOOTH A — SCALE: 3/8"=1'-0"

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Original
Renewal Date
10/31/16
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
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12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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Description:

RE-BID SET

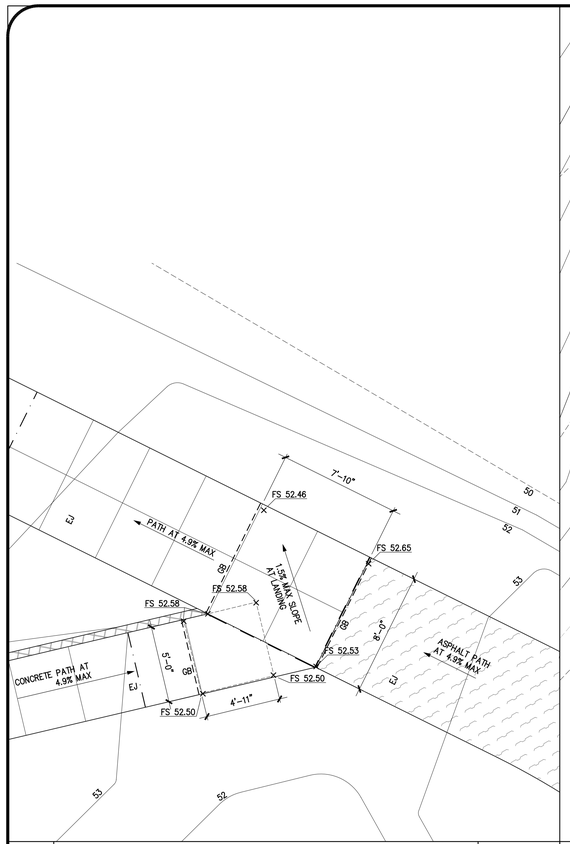
Job No: LEN 0601
Date: 10 NOV 2014

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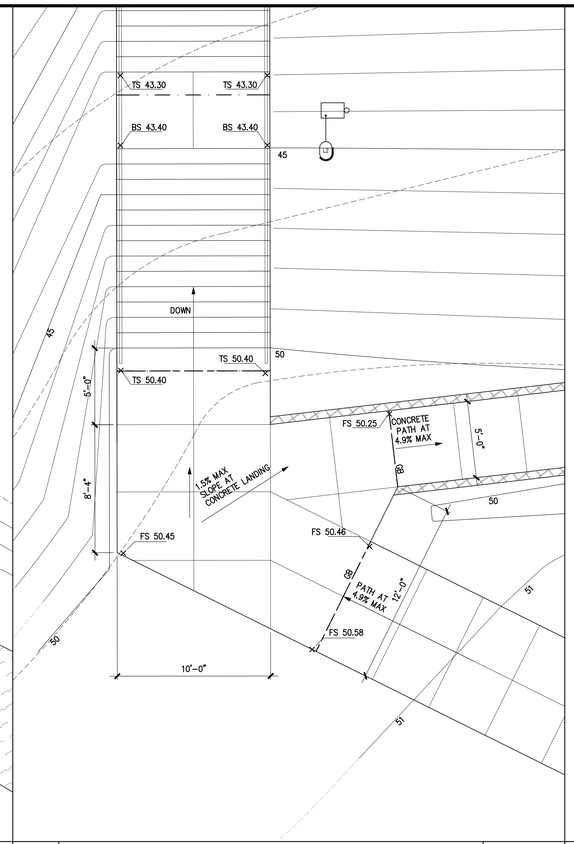
Layout Plans
Picnic Booth

Sheet No:

L5.04

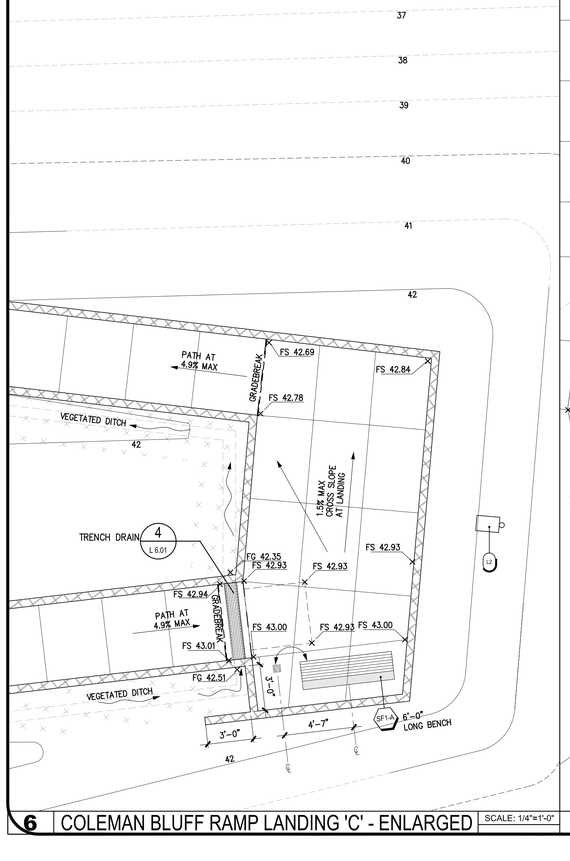


7 COLEMAN BLUFF RAMP LANDING 'D' - ENLARGED SCALE: 1/4"=1'-0"

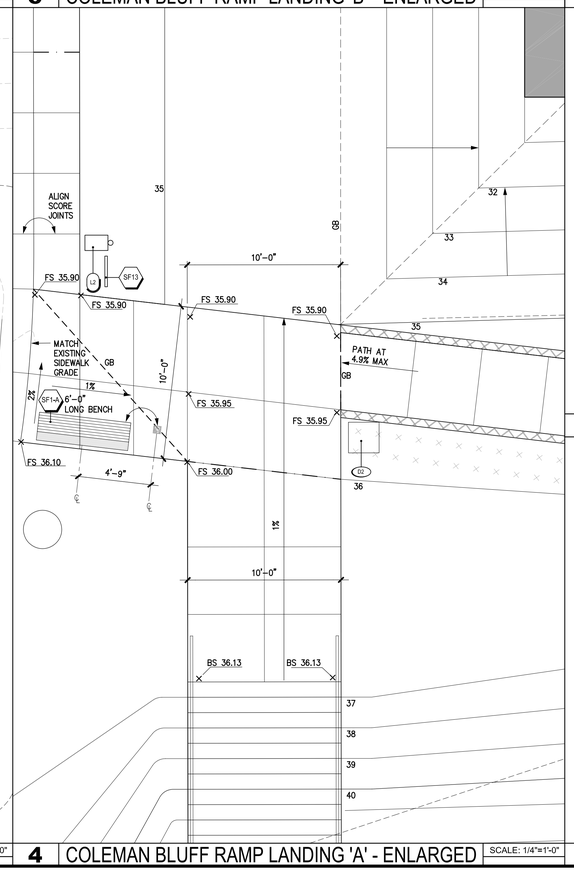


5 COLEMAN BLUFF RAMP LANDING 'B' - ENLARGED SCALE: 1/4"=1'-0"

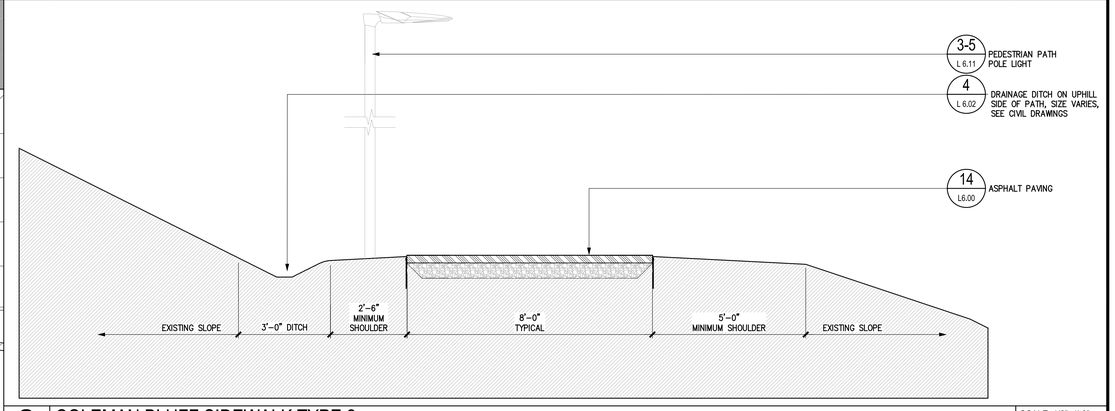
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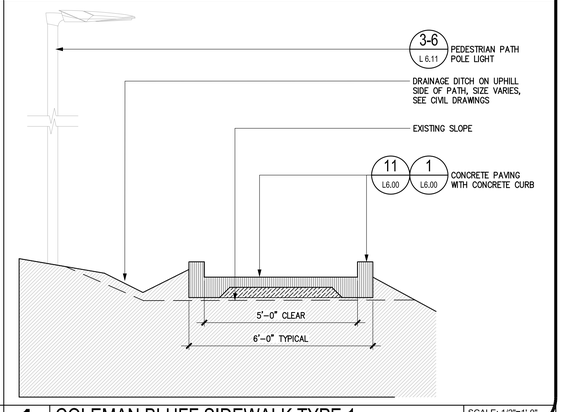
6 COLEMAN BLUFF RAMP LANDING 'C' - ENLARGED SCALE: 1/4"=1'-0"



4 COLEMAN BLUFF RAMP LANDING 'A' - ENLARGED SCALE: 1/4"=1'-0"



2 COLEMAN BLUFF SIDEWALK TYPE 2 SCALE: 1/2"=1'-0"



1 COLEMAN BLUFF SIDEWALK TYPE 1 SCALE: 1/2"=1'-0"

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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Original
Renewal Date
10/31/15
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
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3	35% CD'S	7.29.09
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13	HILLPOINT RE-BID SET	11.10.14

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Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

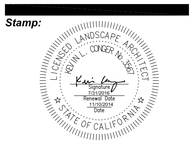
Enlargements
Coleman Bluff

Sheet No:

L5.05

CMG
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FACSIMILE: 415/495-3080

Stamp:



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One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB.01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

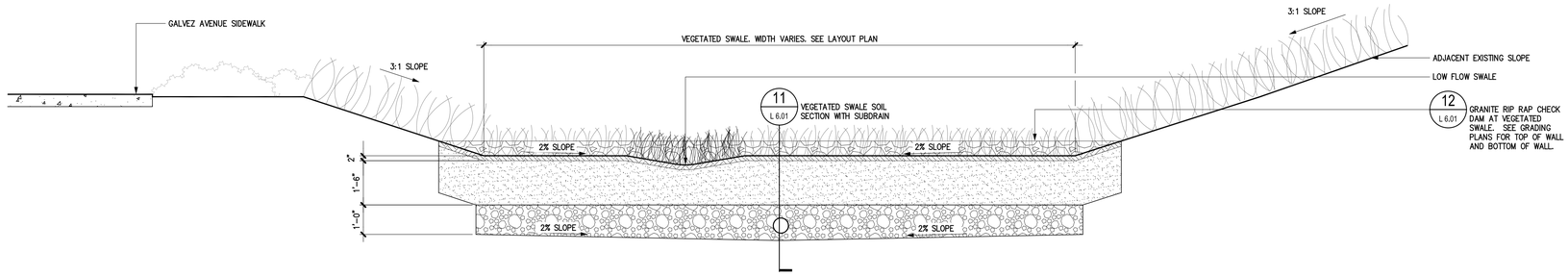
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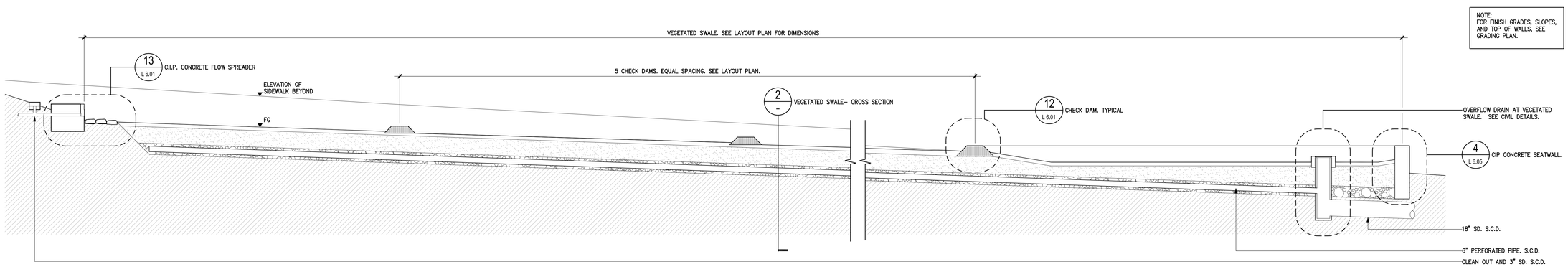
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

7 5 3



2 VEGETATED SWALE CROSS SECTION — SCALE: 1/2"=1'-0"



1 VEGETATED SWALE - LONGITUDINAL SECTION — SCALE: 1/4"=1'-0"

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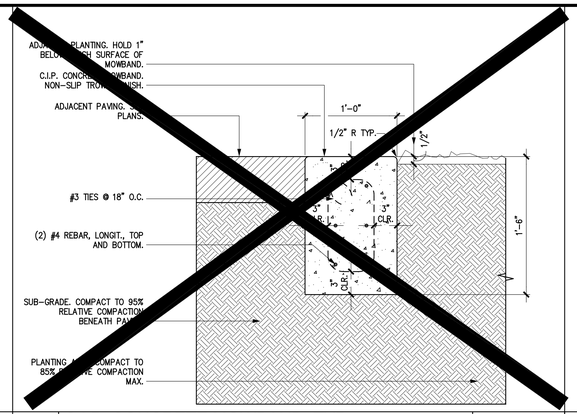
Enlargements
Vegetated Swale

Sheet No:

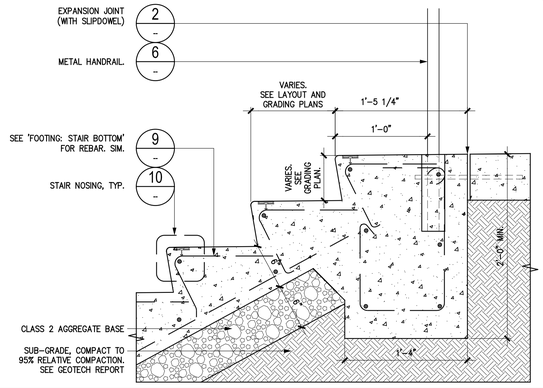
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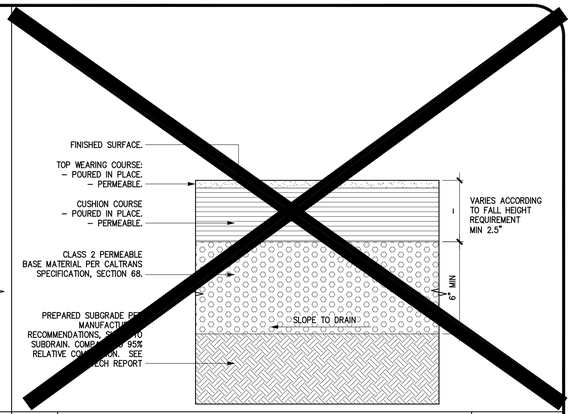
12 C.I.P. CONCRETE MOWBAND, TYP. SCALE: 1 1/2"=1'-0"



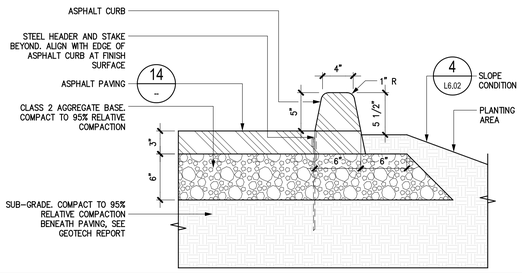
8 FOOTING: STAIR TOP SCALE: 1 1/2"=1'-0"



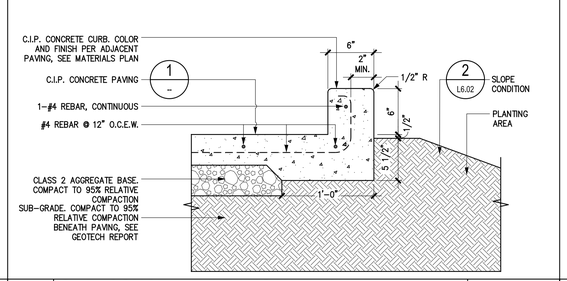
4 RUBBER SAFETY SURFACE SCALE: 3"=1'-0"



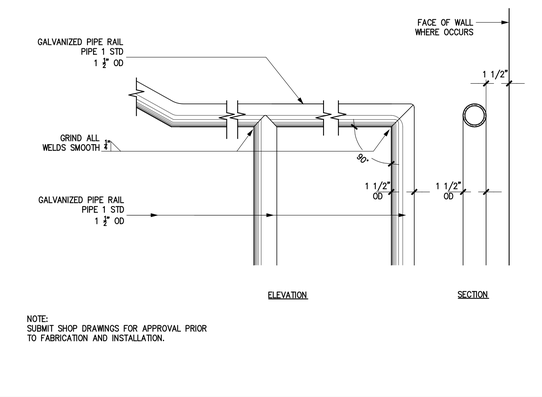
15 ASPHALT PAVING WITH ASPHALT CURB SCALE: 1 1/2"=1'-0"



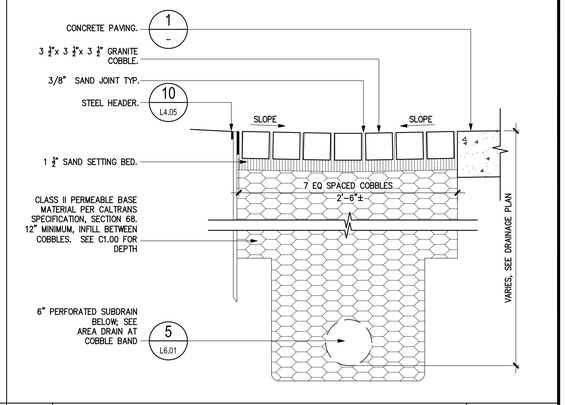
11 C.I.P. CONCRETE PAVING WITH CURB SCALE: 1 1/2"=1'-0"



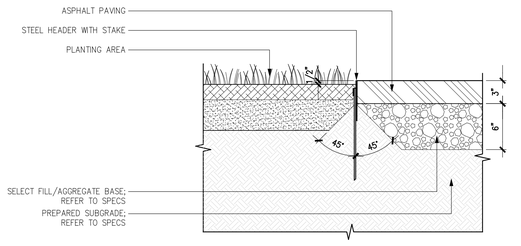
7 METAL HANDRAIL, ENLARGED SCALE: 3"=1'-0"



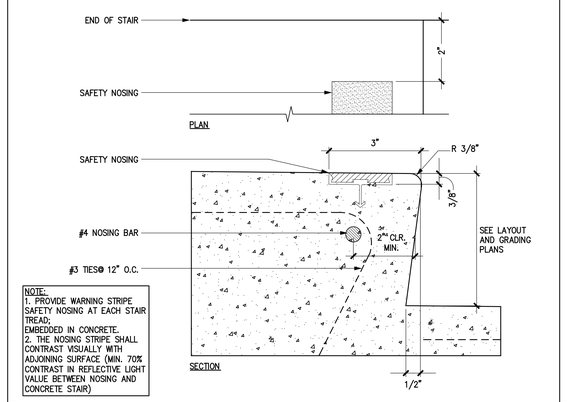
3 COBBLE BAND & LAWN SUBDRAIN SCALE: 1 1/2"=1'-0"



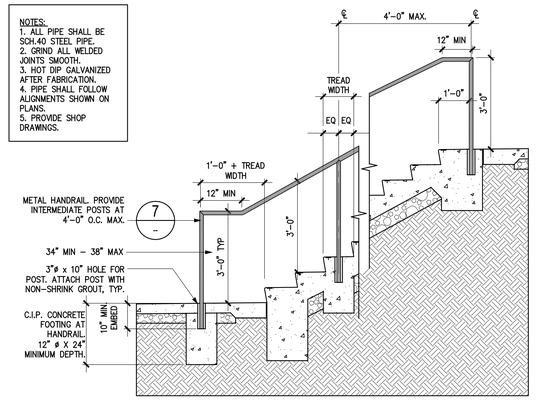
14 ASPHALT PAVING SCALE: 1-1/2"=1'-0"



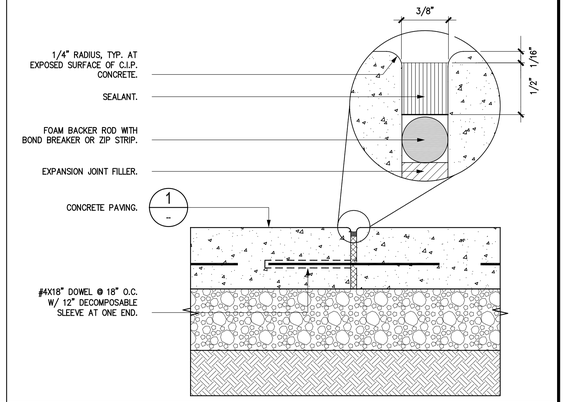
10 STAIR NOSING SCALE: 6"=1'-0"



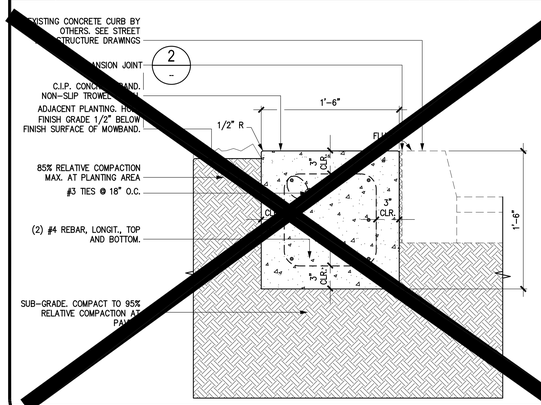
6 METAL HANDRAIL, TYP. SCALE: 1/2"=1'-0"



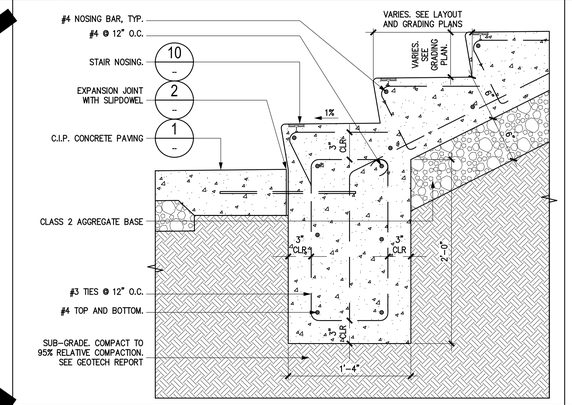
2 EXPANSION JOINT SCALE: 3"=1'-0"



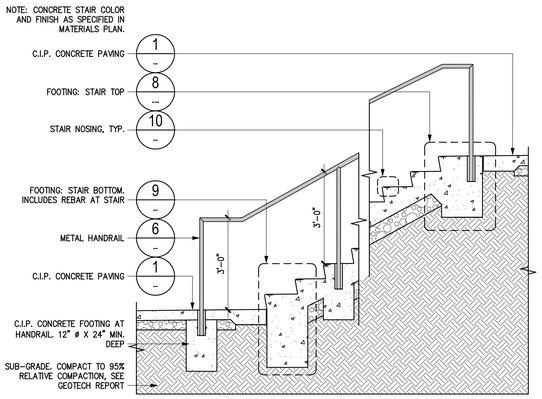
13 C.I.P. CONCRETE BAND AT CURB SCALE: 1 1/2"=1'-0"



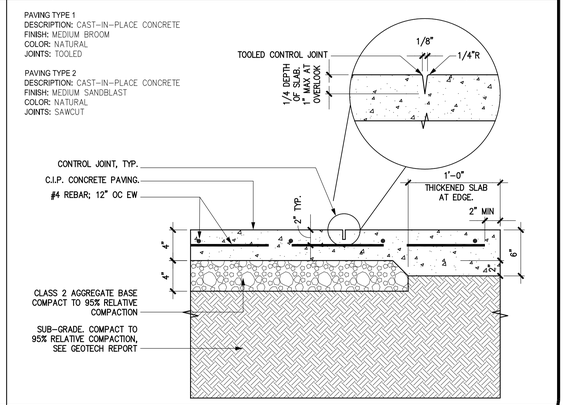
9 FOOTING: STAIR BOTTOM SCALE: 1 1/2"=1'-0"



5 C.I.P. CONCRETE STAIR, TYP. SCALE: 1/2"=1'-0"



1 CAST IN PLACE CONCRETE PAVING SCALE: 1-1/2"=1'-0"



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SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/15
Renewal Date
Date
OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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No:	Revision	Date:
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Description:

RE-BID SET

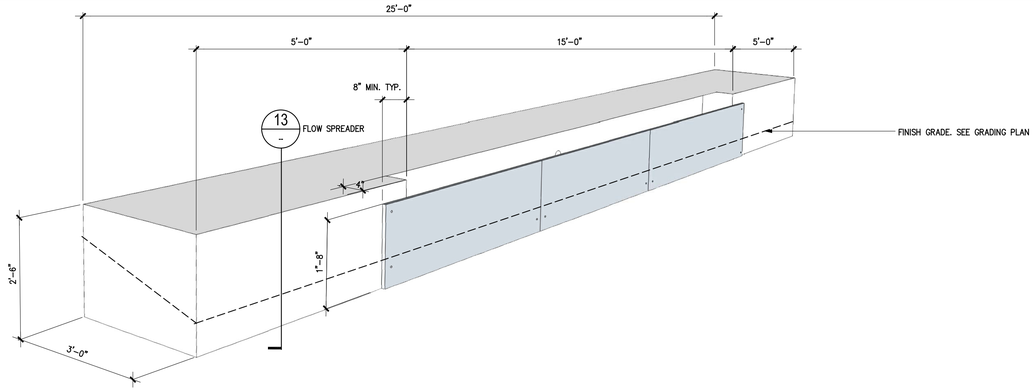
Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

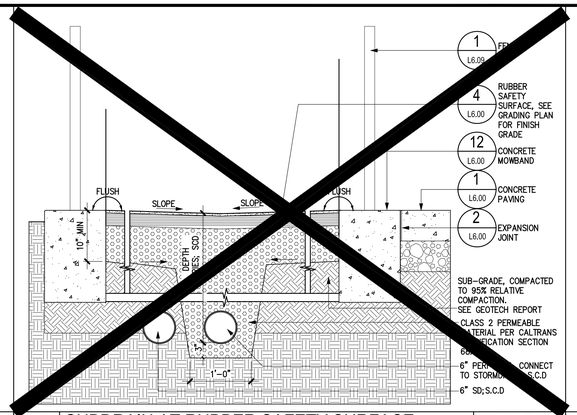
Paving, Joints & Stair Details

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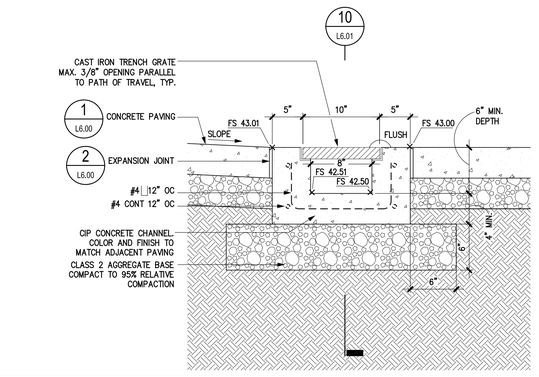
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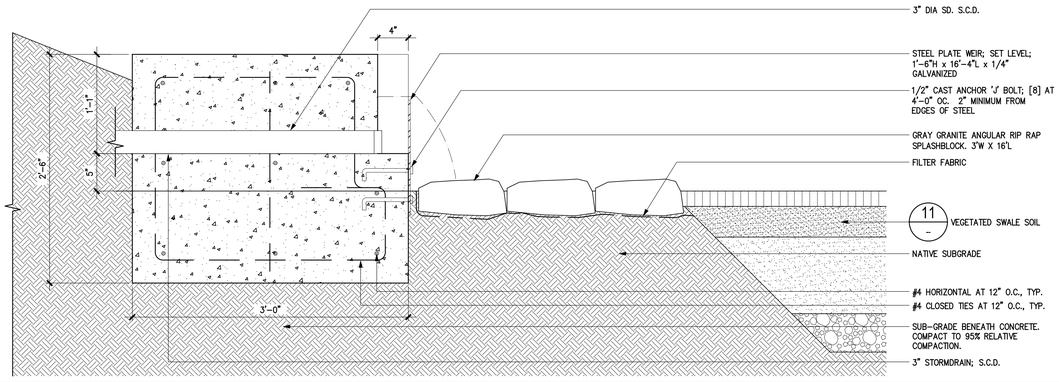
14 C.I.P. CONCRETE FLOW SPREADER- AXON — SCALE: 1"=1'-0"



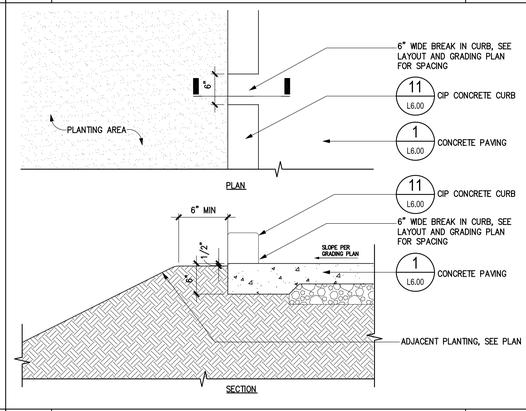
8 SUBDRAIN AT RUBBER SAFETY SURFACE — SCALE: 1"=1'-0"



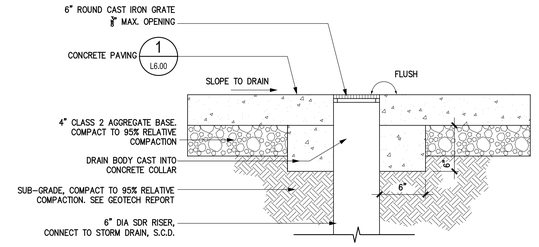
4 TRENCH DRAIN — SCALE: 1-1/2"=1'-0"



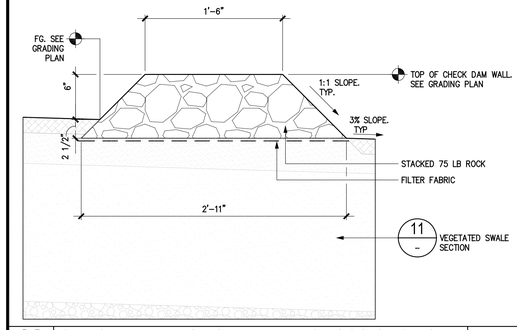
13 C.I.P. CONCRETE FLOW SPREADER — SCALE: 1 1/2"=1'-0"



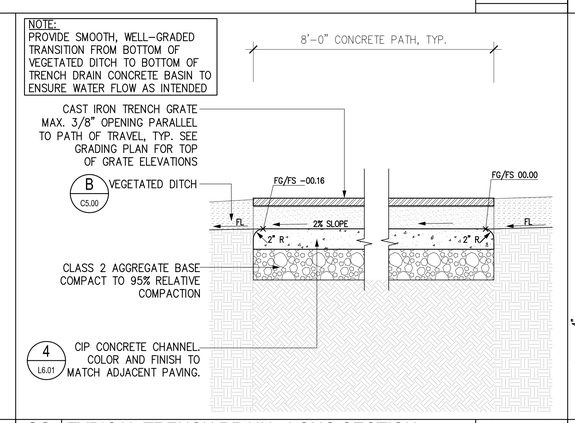
7 WEEP THROUGH C.I.P. CURB — SCALE: 1"=1'-0"



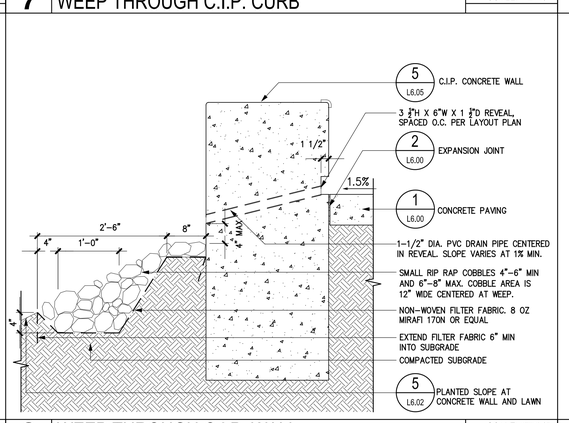
3 AREA DRAIN AT OVERLOOK — SCALE: 1-1/2"=1'-0"



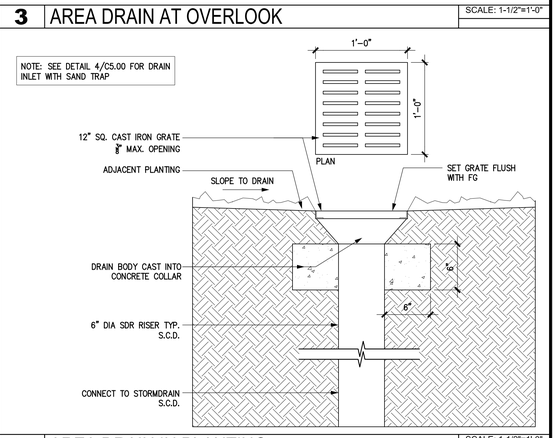
12 CHECK DAM - LONGITUDINAL CROSS SECTION — SCALE: 1 1/2"=1'-0"



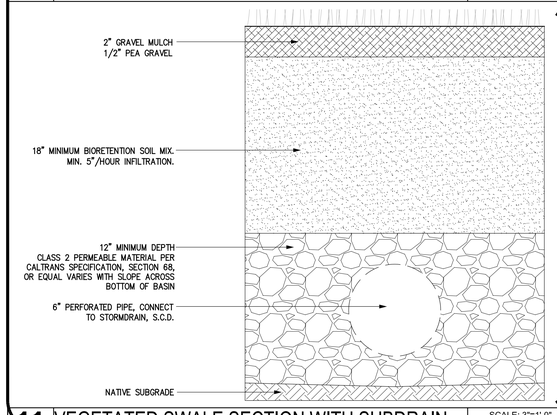
10 TYPICAL TRENCH DRAIN - LONG SECTION — SCALE: 1"=1'-0"



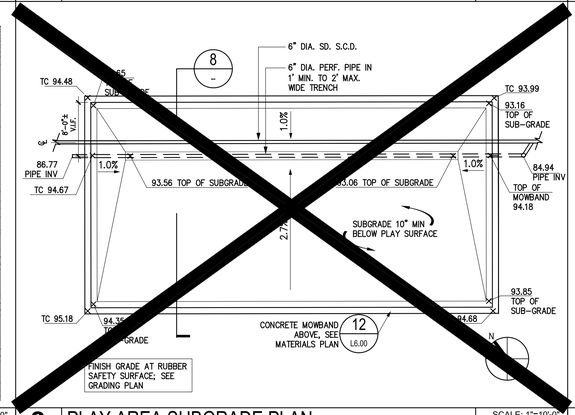
6 WEEP THROUGH C.I.P. WALL — SCALE: 1"=1'-0"



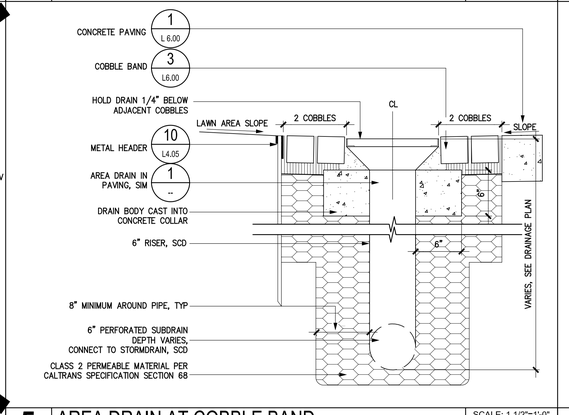
2 AREA DRAIN IN PLANTING — SCALE: 1-1/2"=1'-0"



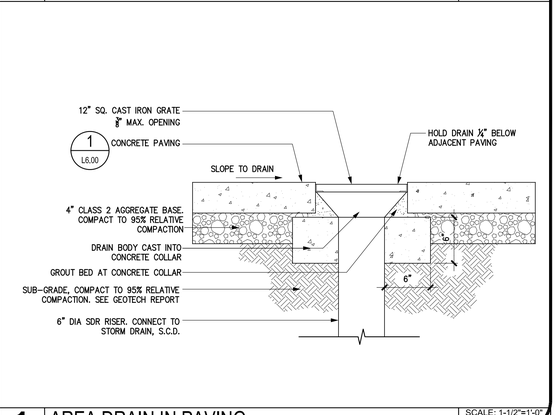
11 VEGETATED SWALE SECTION WITH SUBDRAIN — SCALE: 3"=1'-0"



9 PLAY AREA SUBGRADE PLAN — SCALE: 1"=10'-0"



5 AREA DRAIN AT COBBLE BAND — SCALE: 1 1/2"=1'-0"



1 AREA DRAIN IN PAVING — SCALE: 1-1/2"=1'-0"

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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3482
Signature
12/31/15
Renewal Date
Date
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

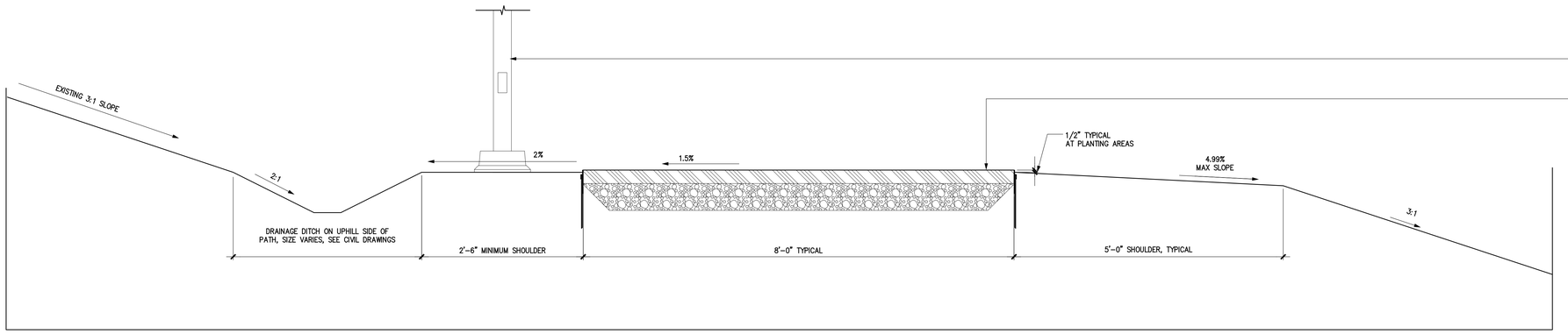
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Description:
RE-BID SET

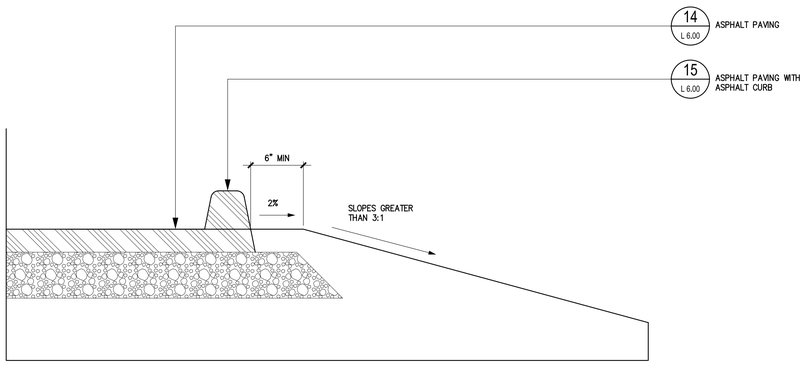
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Date: 10 NOV 2014

Sheet Title:
Drain Details

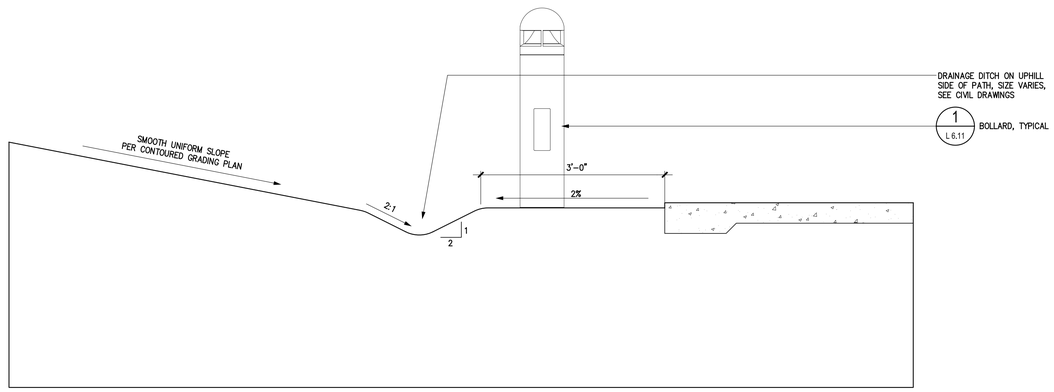
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L6.01



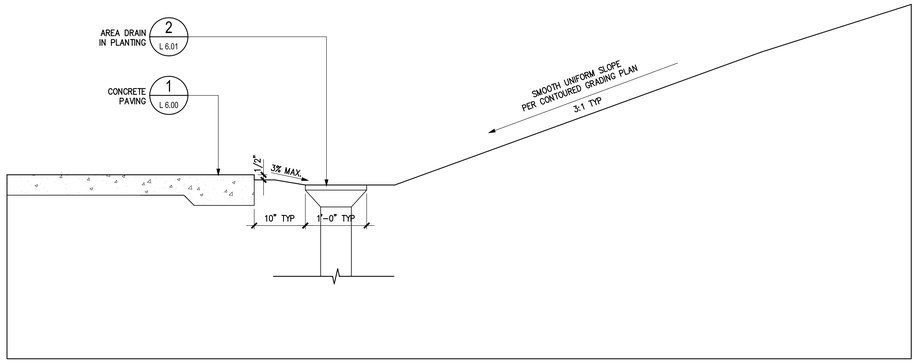
4 PLANTED SLOPE & DITCH AT COLEMAN BLUFF SIDEWALK TYPE 2 — SCALE: 1"=1'-0"



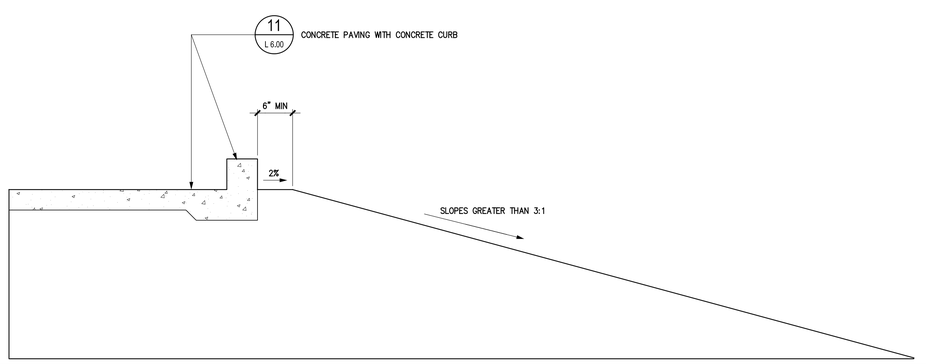
7 ASPHALT CURB AT 3:1 SLOPES — SCALE: 1 1/2"=1'-0"



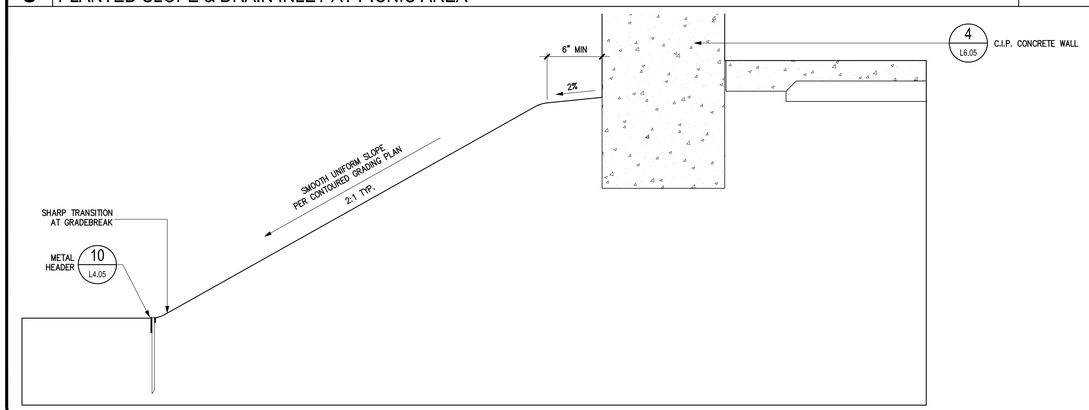
3 PLANTED SLOPE & DITCH AT SIDEWALK — SCALE: 1"=1'-0"



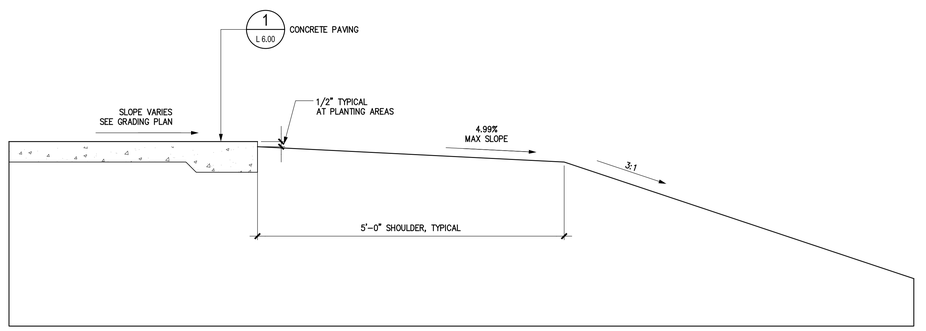
6 PLANTED SLOPE & DRAIN INLET AT PICNIC AREA — SCALE: 1"=1'-0"



2 CONCRETE CURB AT 3:1 SLOPES — SCALE: 1"=1'-0"



5 PLANTED SLOPE AT CONCRETE WALL & LAWN — SCALE: 1"=1'-0"



1 SHOULDER AT GREATER THAN 3:1 SLOPES — SCALE: 1"=1'-0"

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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/12/14
Renewal Date
OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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13	HILLPOINT RE-BID SET	11.10.14

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Description:

RE-BID SET

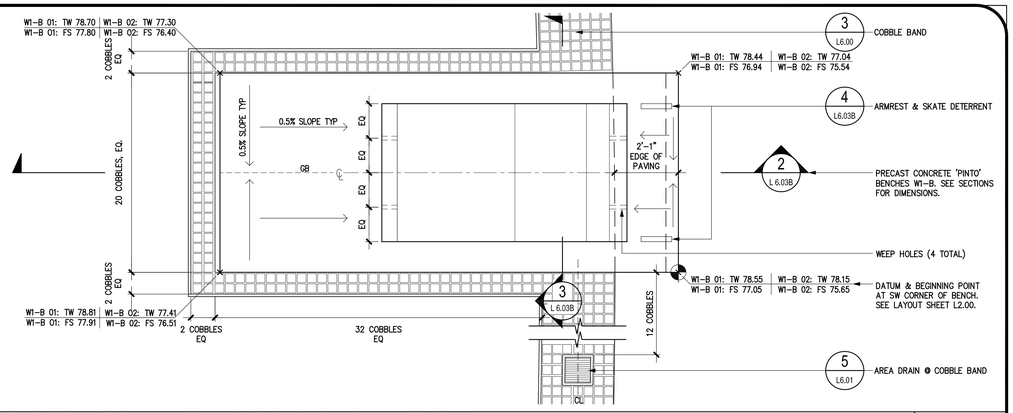
Job No: LEN 0601
Date: 10 NOV 2014

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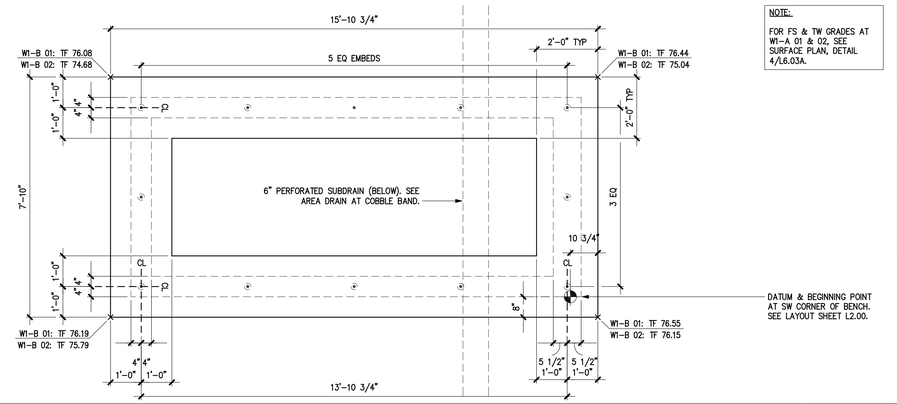
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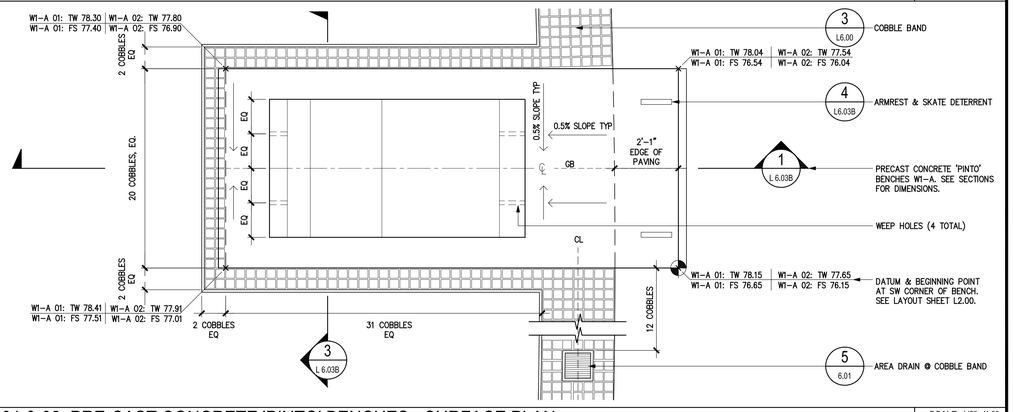
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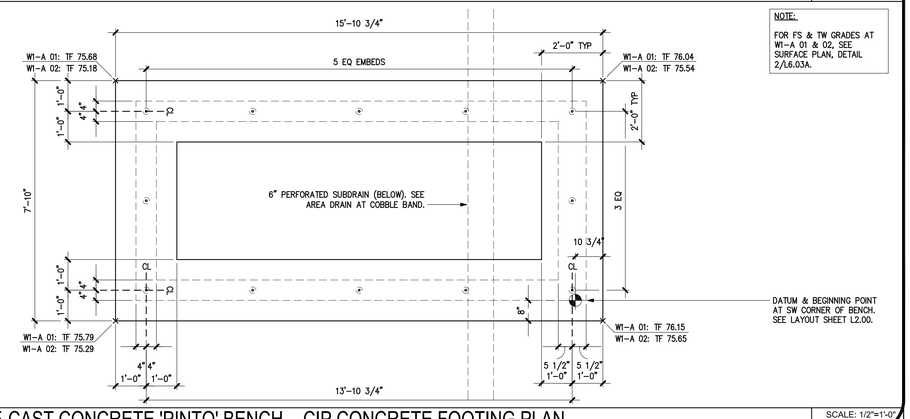
4 W1-B 01 & 02: PRE-CAST CONCRETE 'PINTO' BENCHES - PLAN — SCALE: 1/2"=1'-0"



3 W1-B 01 & 02: PRE-CAST CONCRETE 'PINTO' BENCH - CIP CONCRETE FOOTING PLAN — SCALE: 1/2"=1'-0"



2 W1-A 01 & 02: PRE-CAST CONCRETE 'PINTO' BENCHES - SURFACE PLAN — SCALE: 1/2"=1'-0"



1 W1-A 01 & 02: PRE-CAST CONCRETE 'PINTO' BENCH - CIP CONCRETE FOOTING PLAN — SCALE: 1/2"=1'-0"

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Signature
12/31/14
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OF CALIFORNIA

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One Sansome Street, Suite 3200
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HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

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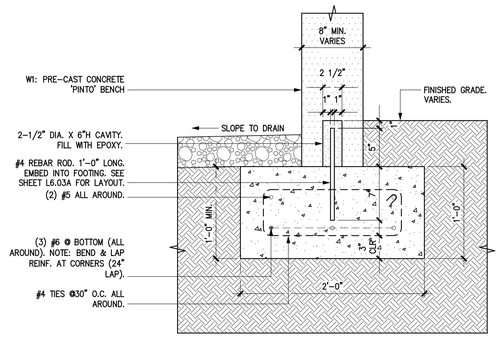
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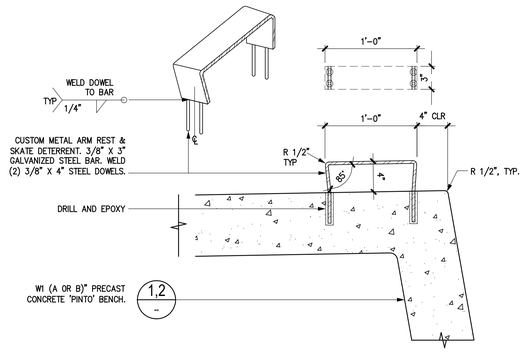
W1: Walls
'Pinto' Bench
Plans

Sheet No:

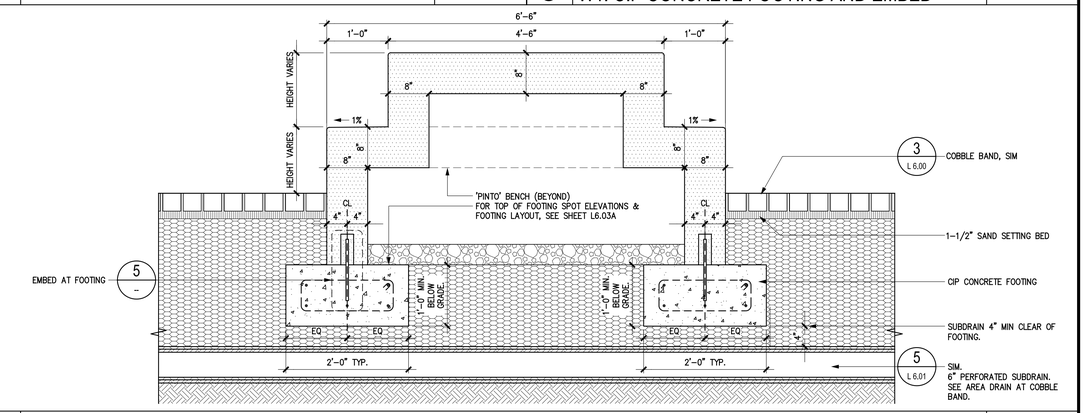
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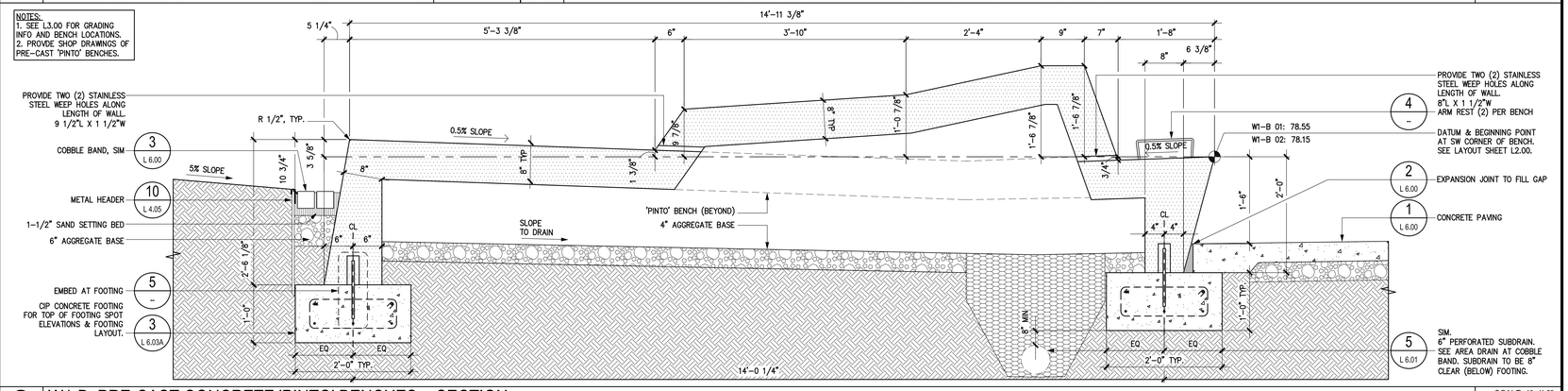
5 W1: CIP CONCRETE FOOTING AND EMBED — SCALE: 1-1/2"=1'-0"



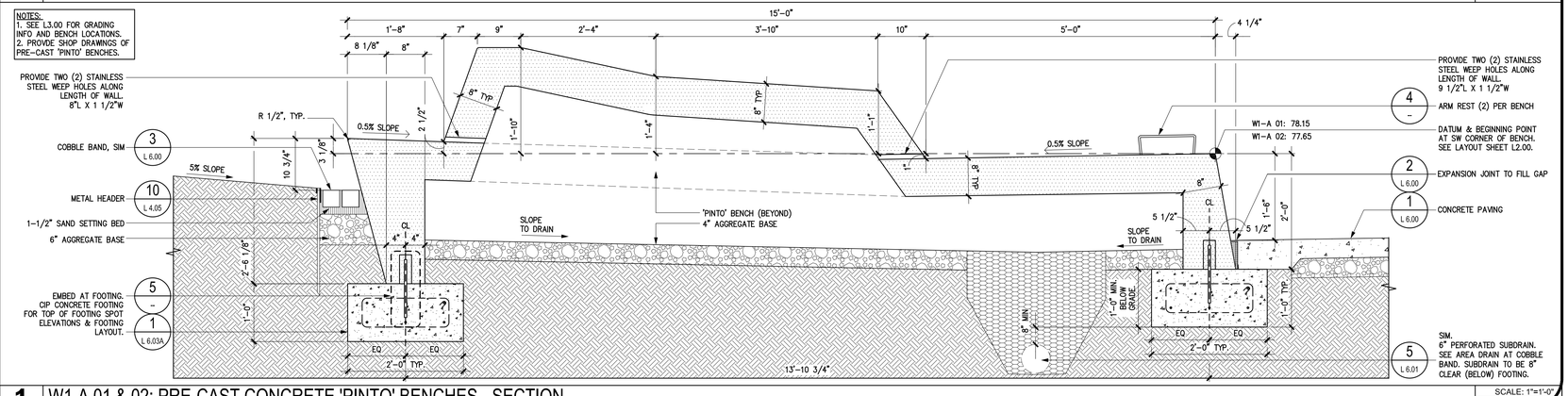
4 W1: PRE-CAST CONCRETE 'PINTO' - ARM REST — SCALE: 1-1/2"=1'-0"



3 W1-A & W1-B: PRE-CAST CONCRETE 'PINTO' BENCHES - CROSS SECTION — SCALE: 1"=1'-0"



2 W1-B: PRE-CAST CONCRETE 'PINTO' BENCHES - SECTION — SCALE: 1"=1'-0"



1 W1-A 01 & 02: PRE-CAST CONCRETE 'PINTO' BENCHES - SECTION — SCALE: 1"=1'-0"

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
Original
Renewal Date
10/31/2015
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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11	PERMIT SET - 3rd Submittal	7.31.14
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13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
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Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

W1: Walls
'Pinto' Bench
Section & Details

Sheet No:

L6.03B

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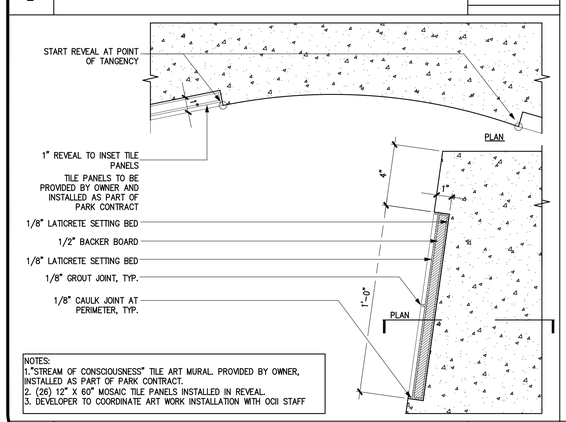
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5 NOT USED

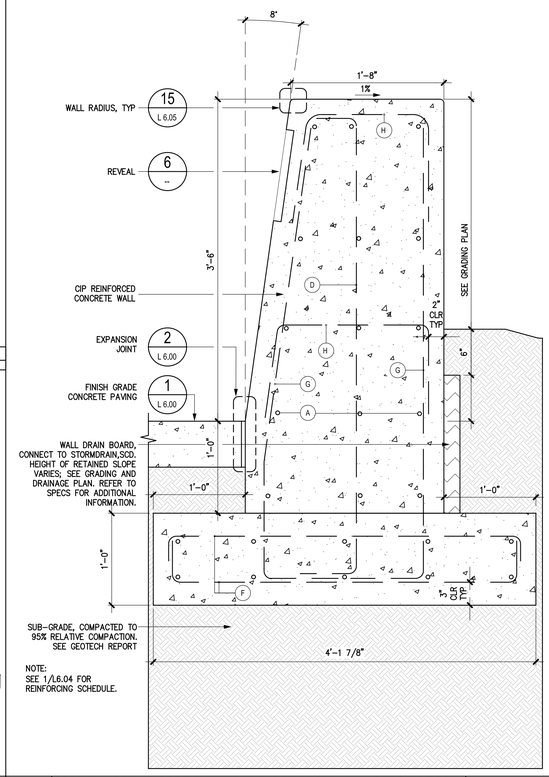
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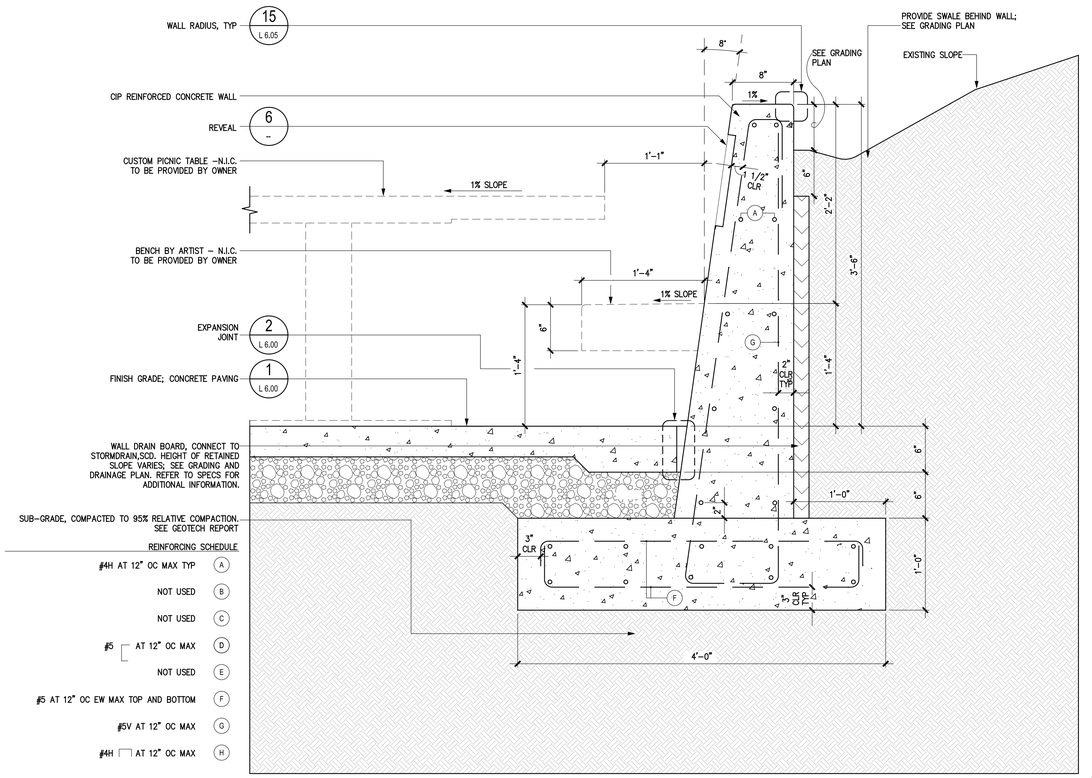


NOTES:
1."STREAM OF CONSCIOUSNESS" TILE ART MURAL. PROVIDED BY OWNER, INSTALLED AS PART OF PARK CONTRACT.
2. (26) 12" X 60" MOSAIC TILE PANELS INSTALLED IN REVEAL.
3. DEVELOPER TO COORDINATE ART WORK INSTALLATION WITH OCI STAFF

6 REVEAL — SCALE: 3"=1'-0"



4 W2-B: CIP CONCRETE BOOTH WALL - SECTION — SCALE: 1 1/2"=1'-0"



1 W2-A: CIP CONCRETE BOOTH WITH ARTIST BENCH - SECTION — SCALE: 1 1/2"=1'-0"

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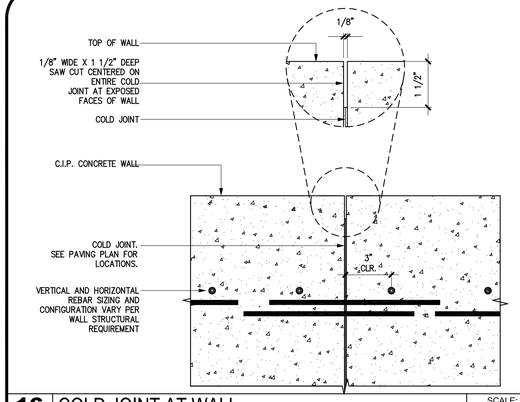
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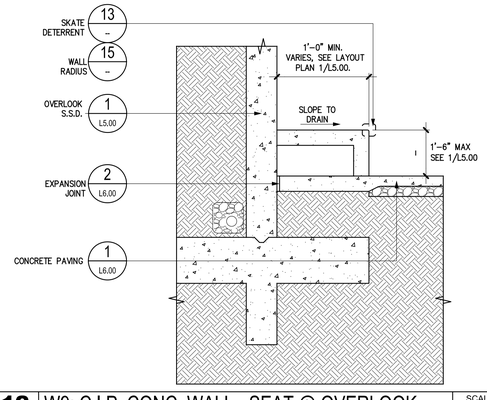
Picnic Booth

Sheet No:

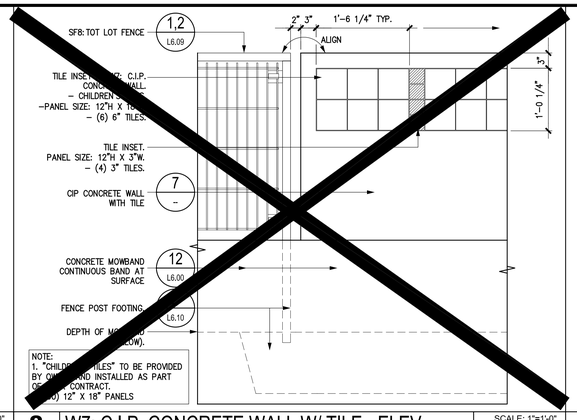
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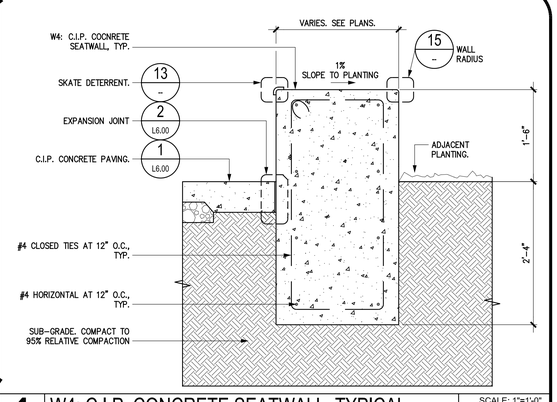
16 COLD JOINT AT WALL — SCALE: 3"=1'-0"



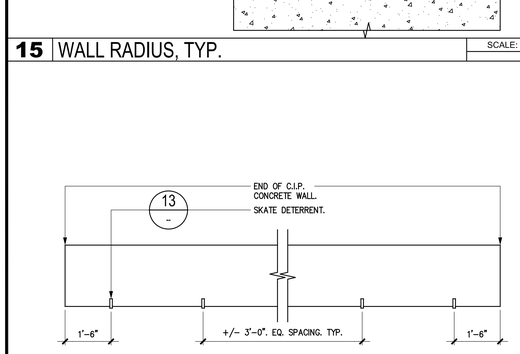
12 W9: C.I.P. CONC. WALL - SEAT @ OVERLOOK — SCALE: 1/2"=1'-0"



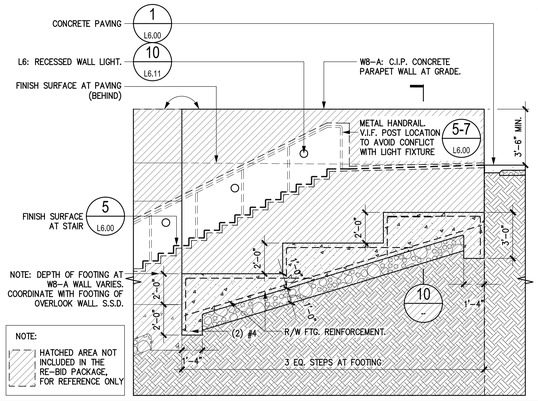
8 W7: C.I.P. CONCRETE WALL W/ TILE - ELEV — SCALE: 1"=1'-0"



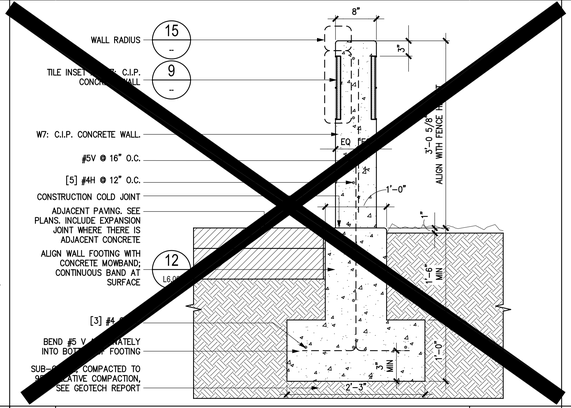
4 W4: C.I.P. CONCRETE SEATWALL, TYPICAL — SCALE: 1"=1'-0"



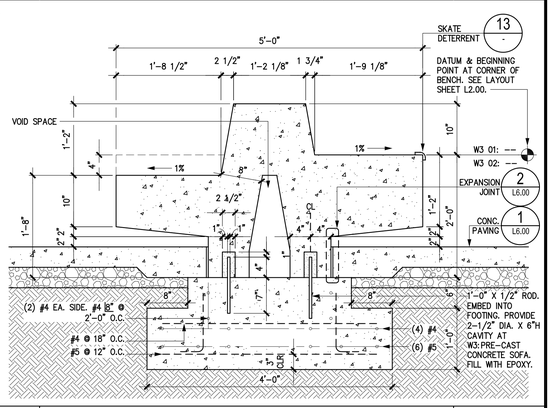
15 WALL RADIUS, TYP. — SCALE: 6"=1'-0"



11 W8-A: C.I.P. CONC. PARAPET WALL AT GRADE — SCALE: 1/4"=1'-0"

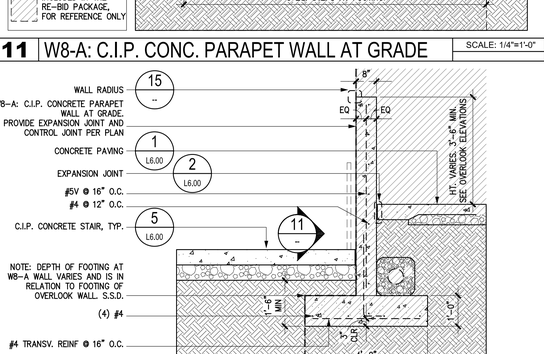


7 W7: C.I.P. CONCRETE WALL W/ TILE - SECT — SCALE: 1"=1'-0"

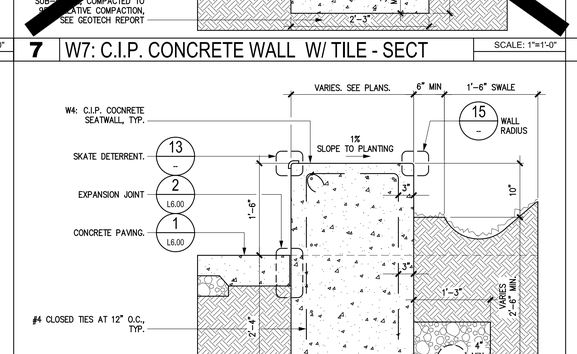


3 W3: PRE-CAST CONCRETE SOFA - SECT — SCALE: 1"=1'-0"

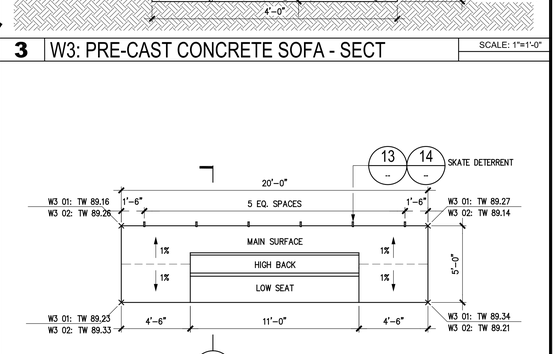
14 SKATE DETERRENT - LAYOUT — SCALE: 1/2"=1'-0"



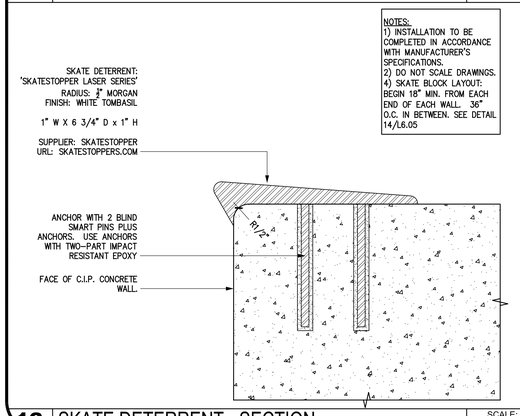
10 W8-A: C.I.P. CONC. PARAPET WALL AT GRADE — SCALE: 1/2"=1'-0"



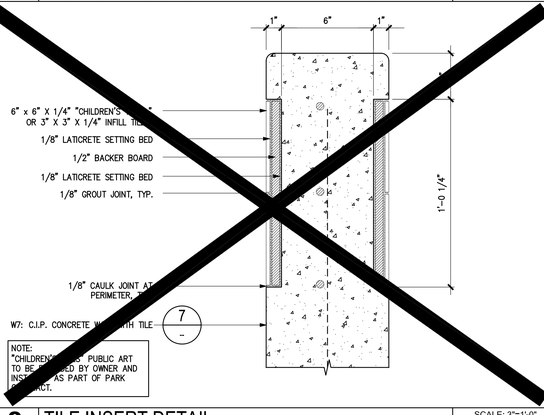
6 W6: C.I.P. CONCRETE SEATWALL, RETAINING — SCALE: 1"=1'-0"



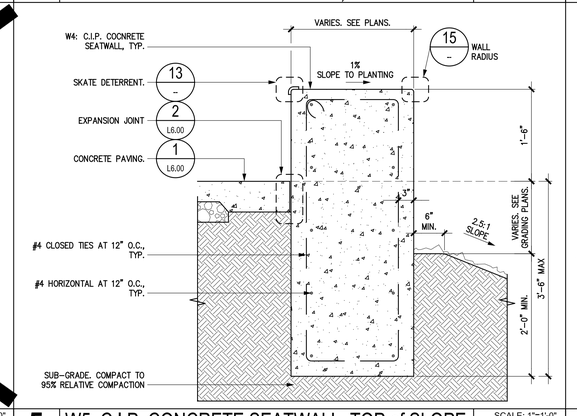
2 W3: PRE-CAST CONCRETE 'SOFA' - SURFACE — SCALE: 1/4"=1'-0"



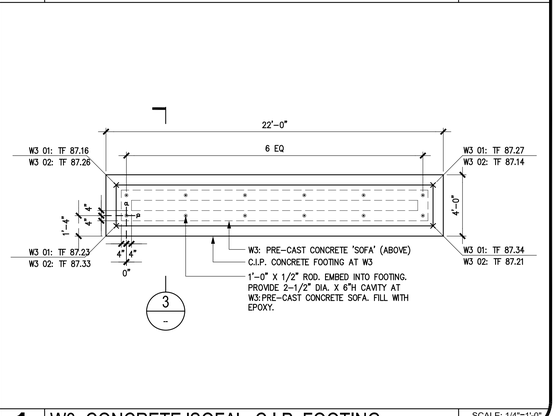
13 SKATE DETERRENT - SECTION — SCALE: 6"=1'-0"



9 TILE INSERT DETAIL — SCALE: 3"=1'-0"



5 W5: C.I.P. CONCRETE SEATWALL, TOP of SLOPE — SCALE: 1"=1'-0"



1 W3: CONCRETE 'SOFA' - C.I.P. FOOTING — SCALE: 1/4"=1'-0"

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FACSIMILE: 415/495-3080

Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/15
Renewal Date
Date
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

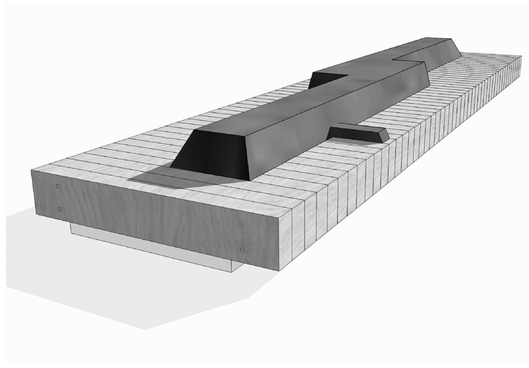
No:	Revision	Date:
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Description:
RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
W3-W9: Walls

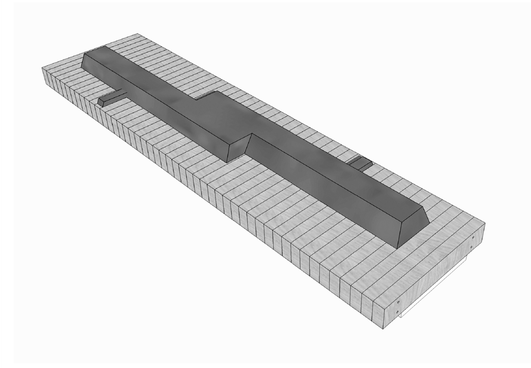
Sheet No:
L6.05



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12

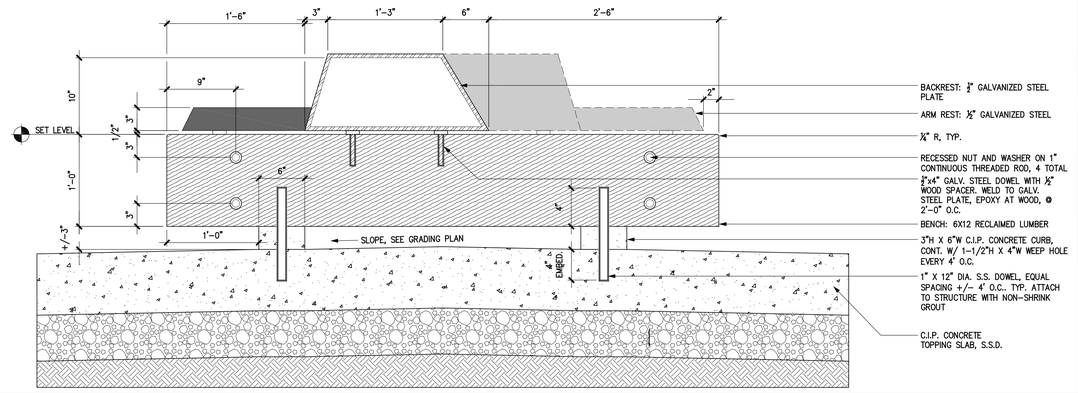
5 SF14: RAFT BENCH - AXON 2 SCALE: 1"=1'-0"



4 SF14: RAFT BENCH - AXON 01 SCALE: 1"=1'-0"

15

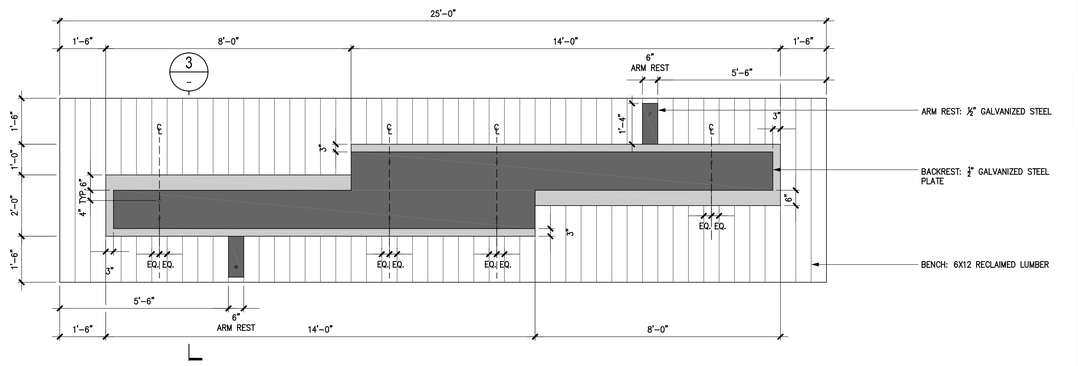
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3 SF14: RAFT BENCH - LONG SECTION SCALE: 1 1/2"=1'-0"

14

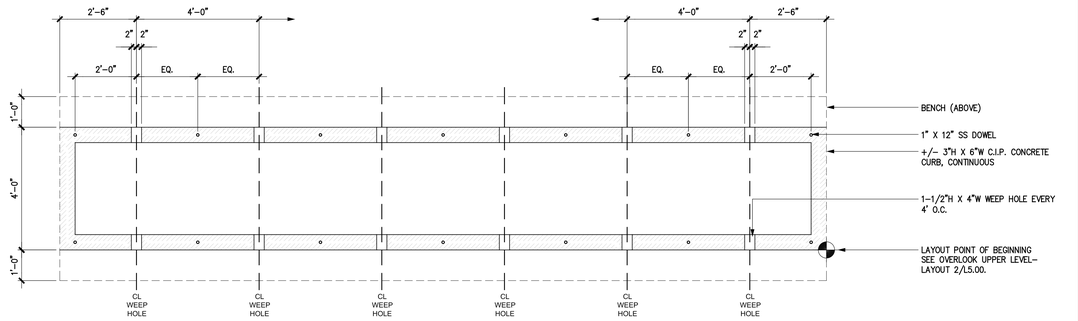
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2 SF14: RAFT BENCH - WOOD SURFACE PLAN SCALE: 1/2"=1'-0"

13

9



1 SF14: RAFT BENCH - FOUNDATION PLAN SCALE: 1/2"=1'-0"

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Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3652
Signature
12/31/14
Renewal Date
Date
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
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Description:

RE-BID SET

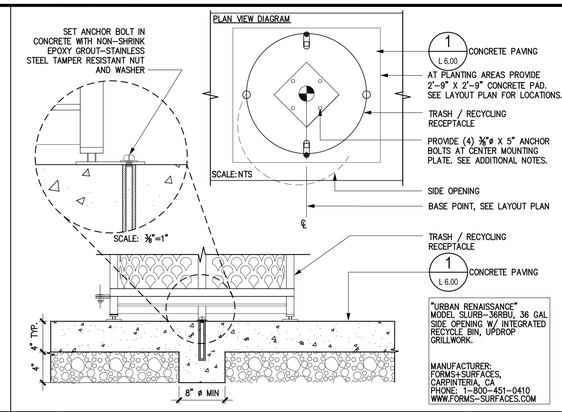
Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

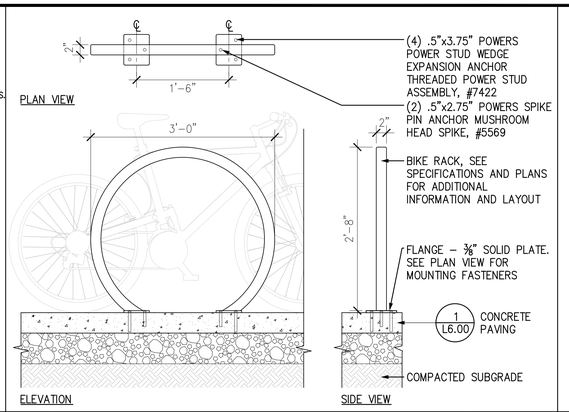
Site Furniture

Sheet No:

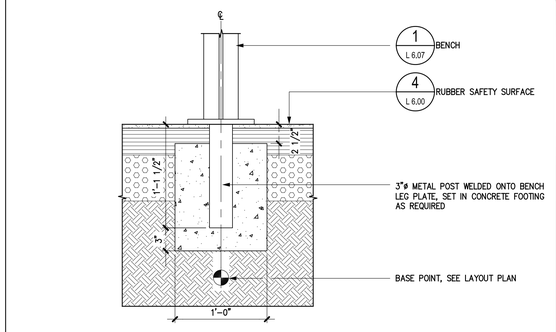
L6.06



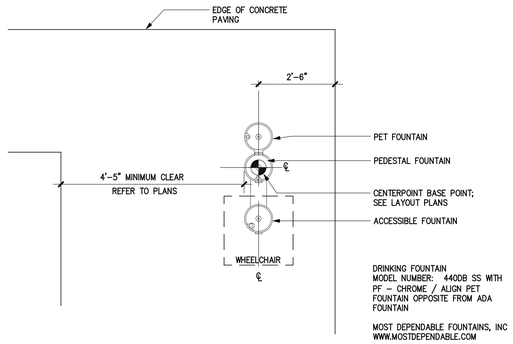
11 SF6: TRASH / RECYCLING RECEPTACLE — SCALE: 1-1/2"=1"



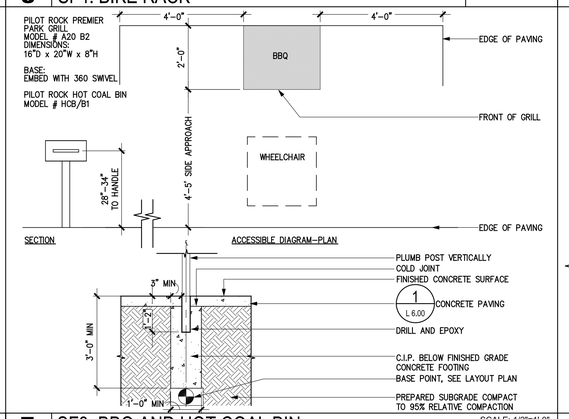
8 SF4: BIKE RACK — SCALE: 1"=1'-0"



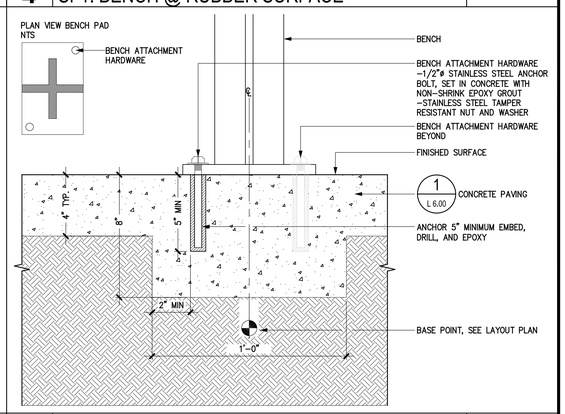
4 SF1: BENCH @ RUBBER SURFACE — SCALE: 1 1/2"=1'-0"



10 SF5: DRINKING FOUNTAIN LAYOUT DIAGRAM — NTS

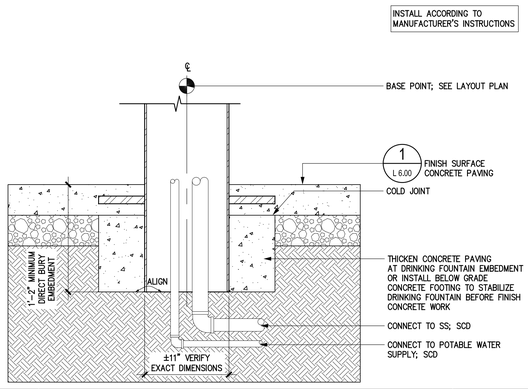


7 SF3: BBQ AND HOT COAL BIN — SCALE: 1/2"=1'-0"



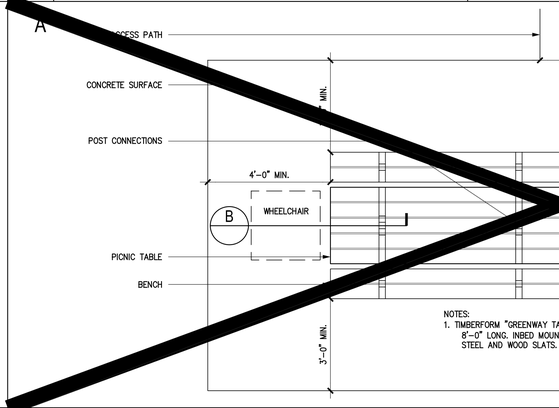
3 SF1: BENCH @ CONCRETE — SCALE: 3"=1'-0"

12 ACCESSIBLE SEATING SPACE - ADA PLAQUE — SCALE: 3"=1'-0"

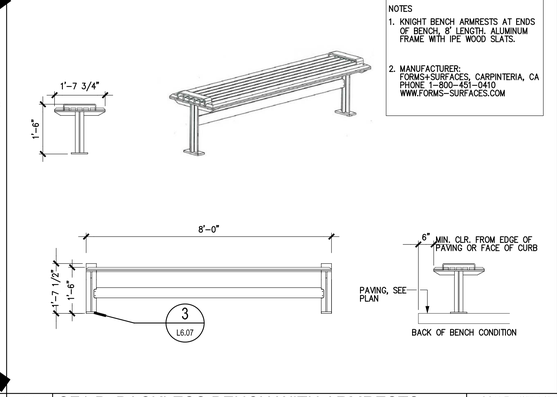


9 SF5: DRINKING FOUNTAIN EMBEDMENT — SCALE: 1 1/2"=1'-0"

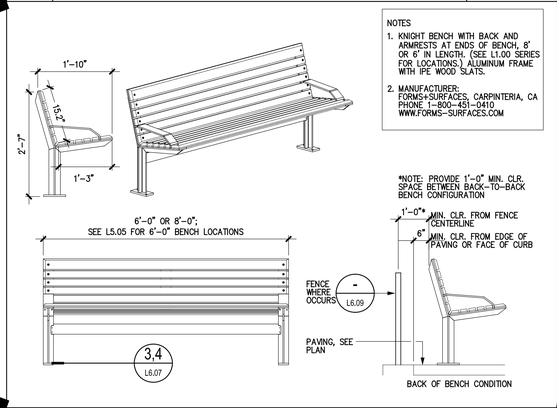
6 SF2: PICNIC TABLE POST EMBEDMENT — SCALE: 1"=1'-0"



5 SF2: PICNIC TABLE — SCALE: 1/2"=1'-0"



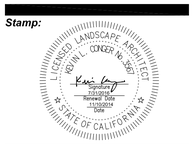
2 SF1-B: BACKLESS BENCH WITH ARMRESTS — SCALE: 1/2"=1'-0"



1 SF1-A: BENCH WITH BACK & ARMRESTS — SCALE: 1/2"=1'-0"

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Stamp:



HPS Development Co.
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San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
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3	35% CD'S	7.29.09
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12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

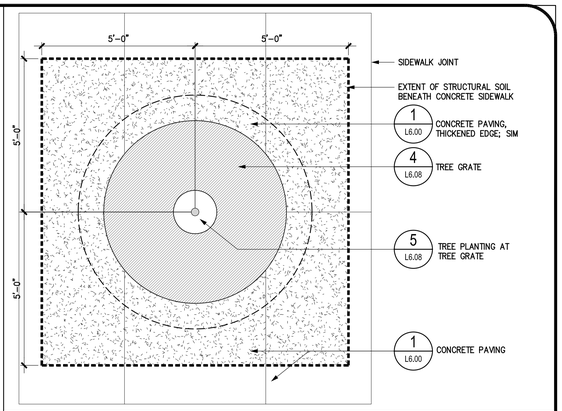
No:	Revision	Date:
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Description:
RE-BID SET

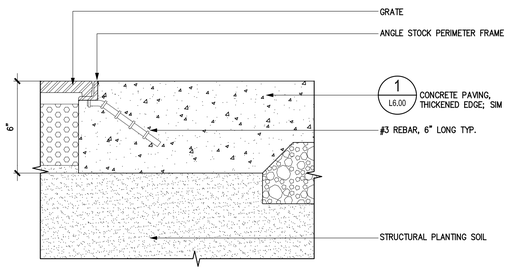
Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:
SF1-SF6:
Site Furniture

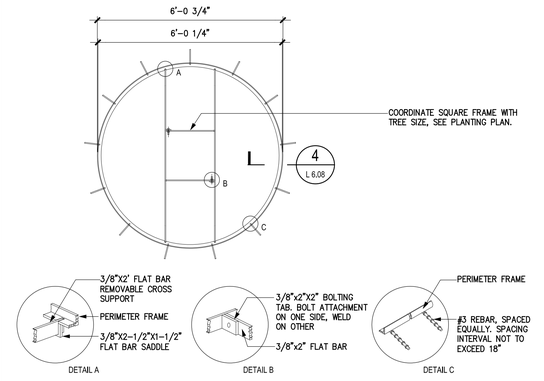
Sheet No:
L6.07



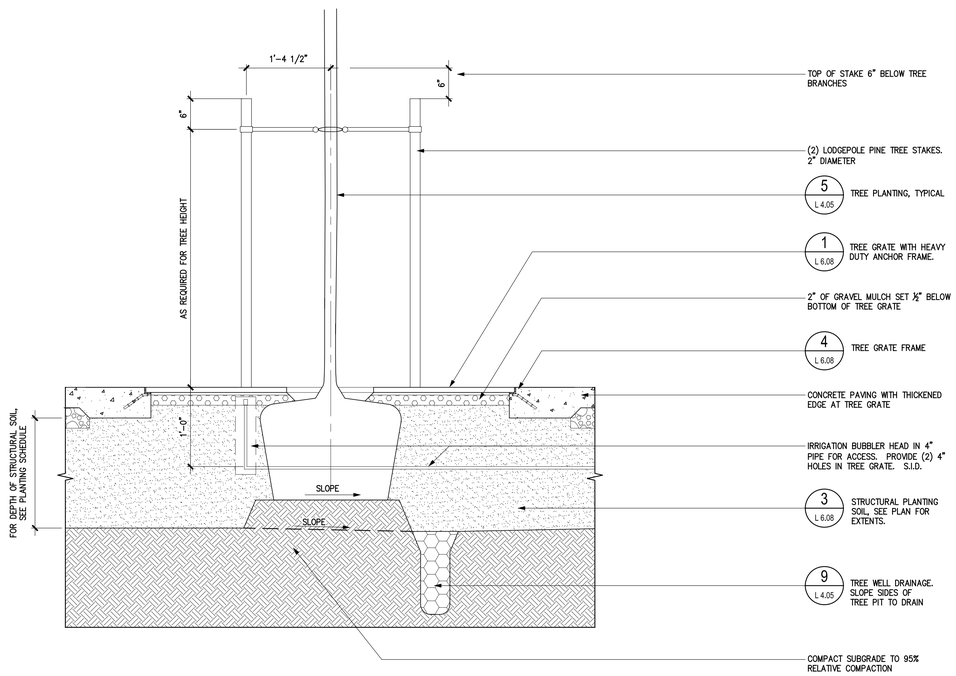
3 TREE GRATE & STRUCTURAL SOIL LAYOUT — SCALE: 1/2"=1'-0"



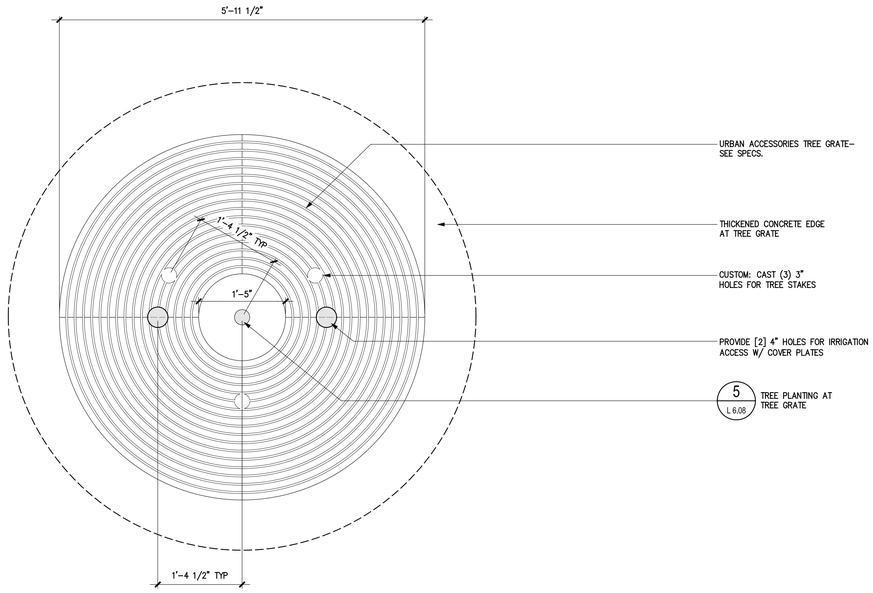
4 TREE GRATE FRAME — SCALE: 3"=1'-0"



2 TREE GRATE FRAME LAYOUT — SCALE: 1/2"=1'-0"



5 TREE PLANTING @ TREE GRATE — SCALE: 1"=1'-0"



1 TREE GRATE — SCALE: 1"=1'-0"

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San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
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11	PERMIT SET - 3rd Submittal	7.31.14
12	IB.01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

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Description:

RE-BID SET

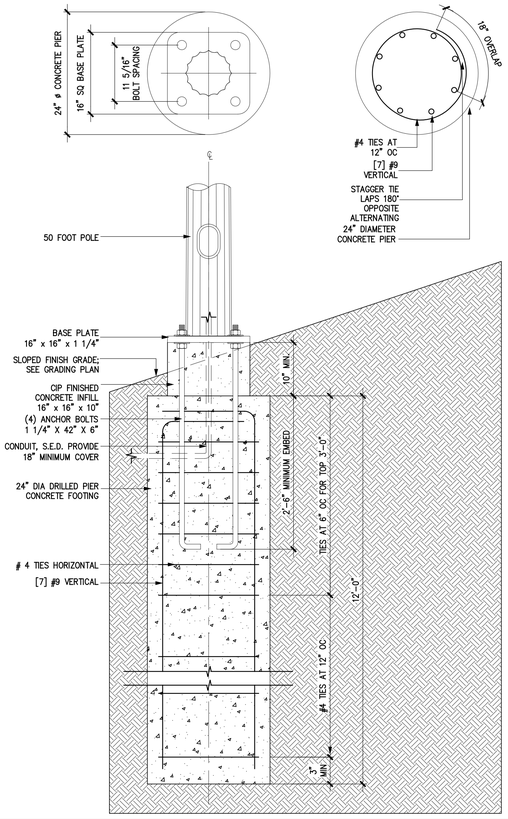
Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

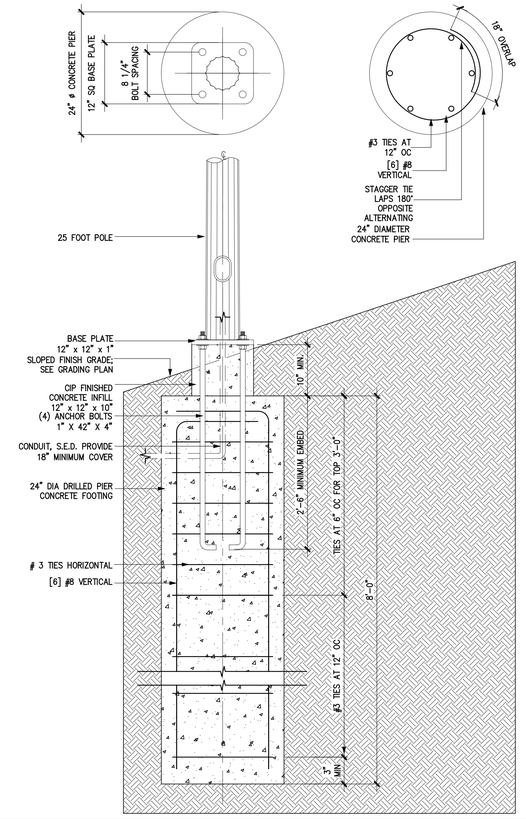
SF7: Tree Grate Details

Sheet No:

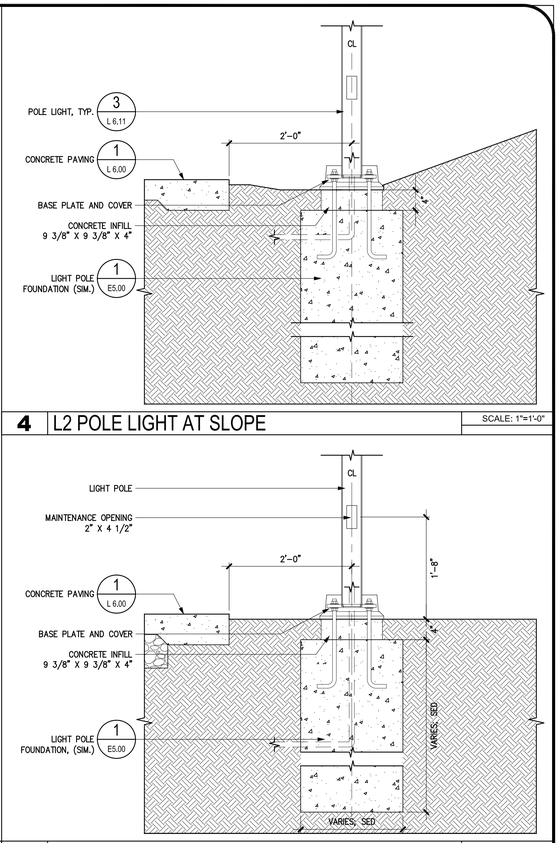
L6.08



8 L4 SPOT LIGHT - 50 FOOT POLE — SCALE: 1"=1'-0"

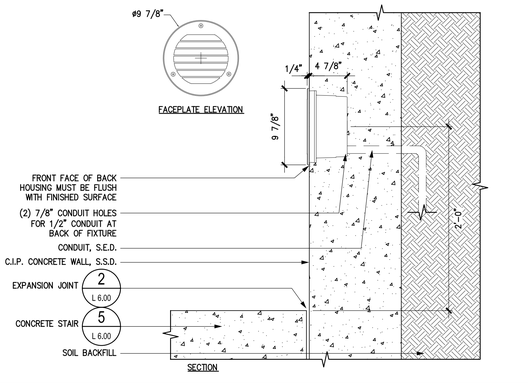


7 L3 SPOT LOT - 25 FOOT POLE — SCALE: 1"=1'-0"

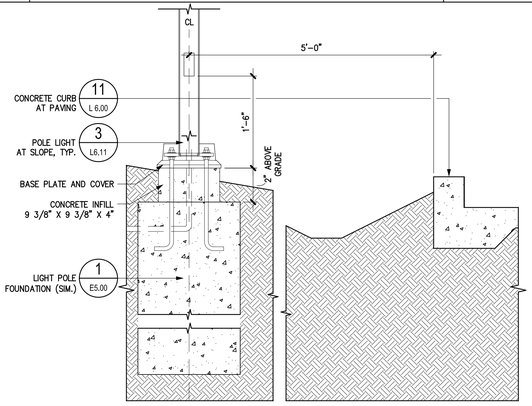


4 L2 POLE LIGHT AT SLOPE — SCALE: 1"=1'-0"

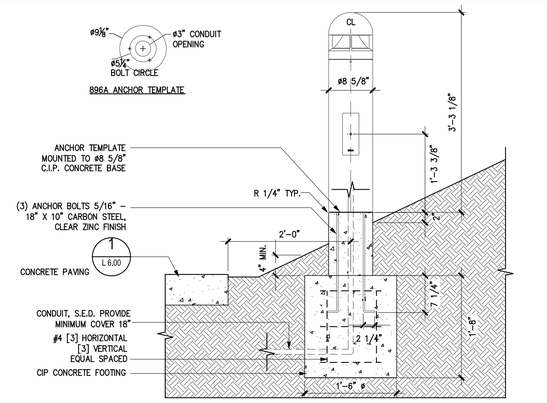
3 L2 POLE LIGHT, TYPICAL — SCALE: 1"=1'-0"



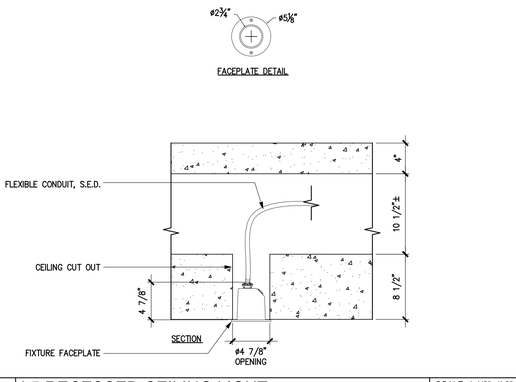
10 L6 RECESSED WALL LIGHT — SCALE: 1-1/2"=1'-0"



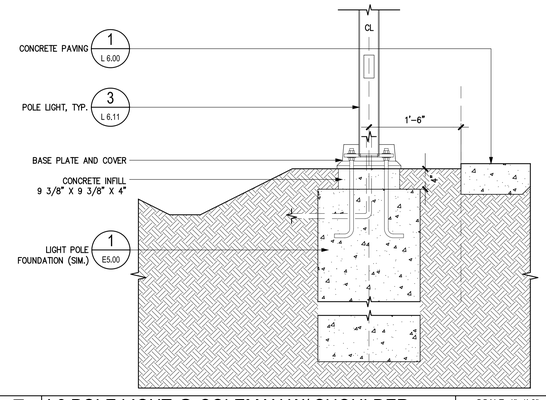
6 L2 POLE LIGHT -12' @ COLEMAN NO SHOULDER — SCALE: 1"=1'-0"



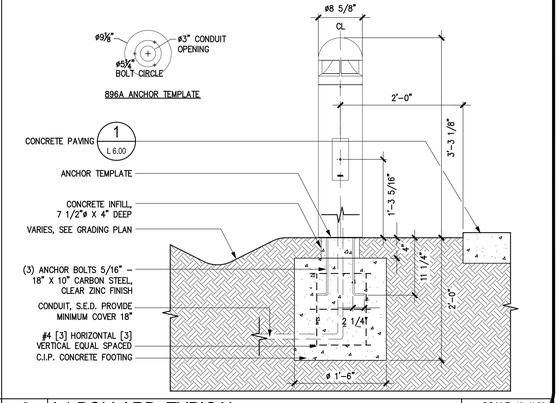
2 L1 BOLLARD AT SLOPE — SCALE: 1"=1'-0"



9 L5 RECESSED CEILING LIGHT — SCALE: 1-1/2"=1'-0"



5 L2 POLE LIGHT @ COLEMAN W/ SHOULDER — SCALE: 1"=1'-0"



1 L1 BOLLARD, TYPICAL — SCALE: 1"=1'-0"

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Stamp:

LICENSED LANDSCAPE ARCHITECT
KEVIN L. CONGER No. 3482
Signature
Original
Renewal Date
10/31/2015
STATE OF CALIFORNIA

HPS Development Co.
One Sansome Street, Suite 3200
San Francisco, CA 94104

HUNTERS POINT OPEN SPACE

HILLPOINT PARK
COLEMAN BLUFF

No:	Issue	Date:
1	50% DESIGN DEVELOPMENT	3.21.08
2	100% DESIGN DEVELOPMENT	1.16.09
3	35% CD'S	7.29.09
4	65% CD'S	5.07.10
5	100% CD'S	3.25.11
6	100% CD'S - 2nd Submittal	3.07.12
7	100% CD'S - 3rd Submittal	1.17.14
8	BID SET	3.07.14
9	PERMIT SET	3.28.14
10	PERMIT SET - 2nd Submittal	5.23.14
11	PERMIT SET - 3rd Submittal	7.31.14
12	IB 01	11.10.14
13	HILLPOINT RE-BID SET	11.10.14

No:	Revision	Date:
△		
△		
△		
△		
△		
△		

Description:

RE-BID SET

Job No: LEN 0601
Date: 10 NOV 2014

Sheet Title:

Light Details

Sheet No:

L6.11

City and County of San Francisco
Department of Building Inspection

Edwin M. Lee, Mayor
Tom C. Hui, S.E., Acting Director

NOTICE

SPECIAL INSPECTION REQUIREMENTS

Please note that Special Inspections shown on the approved plan and checked on the Special Inspections form issued with the permit are required for this project. The employment of special inspectors is the direct responsibility of the owner or the engineer/architect of record acting as the owner's representative.

These special inspections are required *in addition* to the called inspections performed by the Department of Building Inspection. The name of the special inspector shall be furnished to the district building inspector prior to start of work for which special inspection is required.

For questions regarding the details or extent of required inspection or tests, please call the Plan Checker assigned to this project or **415-558-6132**. If there are any field problems regarding special inspection, please call your District Building Inspector or 415-558-6570.

Before final building inspection is scheduled, documentation of special inspection compliance must be submitted to and approved by Special Inspection Services staff. To avoid delays in this process, the project owner should request final compliance reports from the architect or engineer of record and/or special inspection agency soon after the conclusion of work requiring special inspection. ***The permit will not be finalized without compliance with the special inspection requirements.***

STRUCTURAL OBSERVATION REQUIREMENTS

Structural observation shall be provided as required per Section 1710. **The building permit will not be finalized without the compliance of the structural observation requirements.**

Special Inspection Services Contact Information

1. **Telephone: (415) 558-6132**
2. **Fax: (415) 558-6474**
3. **Email: dbi.specialinspections@sfgov.org**
4. **In person: 3rd floor at 1660 Mission St.**

Note: We are moving towards a 'paperless' mode of operation. All special inspection submittals, including final letters, may be emailed (preferred) or faxed. We will also be shifting to a paperless fax receipt mode.

Special Inspection Services
1660 Mission Street - San Francisco CA 94103
Office (415) 558-6132 - FAX (415) 558- 6474 - www.sfdbi.org

SPECIAL INSPECTION AND STRUCTURAL OBSERVATION

A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED STRUCTURAL DRAWING SET

JOB ADDRESS Block 459, Lot C009 55 Innes Ct, S.F. APPLICATION NO. 201303263058 ADDENDUM NO. ____

OWNER NAME HPS Development Company OWNER PHONE NO. (415) 995-1770

Employment of a special inspector is the direct responsibility of the OWNER, or the engineer/architect of record acting as the owner's representative. Special inspector shall be one of those as prescribed in Sec.1704. Name of the special inspector shall be furnished to the DBI District Inspector prior to start of the work for which the Special Inspection is required. Structural observation shall be performed as provided by Section 1710. A preconstruction conference is recommended for owner/builder or designer/builder projects, complex and highrise projects, and for projects utilizing new processes or materials.

In accordance with Sec. 1701; 1703; 1704 (2010 SFBC), Special Inspection and/or testing is required for the following work:

1. ■ Concrete (placement & sampling)
2. ■ Bolts installed in new concrete
3. [ ] Special moment - resisting concrete frame
4. ■ Reinforcing steel
5. **Structural welding:**
   - **A. Periodic visual inspection**
     - [ ] Single pass fillet welds <5/16"
     - [ ] Steel deck
     - [ ] Welded studs
     - [ ] Cold formed studs and joists
     - [ ] Stair and railing systems
     - [ ] Reinforcing steel
   - **B. Continuous visual inspection and NDT** (Section 1704)
     - [ ] All other welding (NDT exception: Fillet weld)
     - [ ] Reinforcing steel; and
     - [ ] NDT required
     - [ ] Moment-resisting frames
     - [ ] Others
6. [ ] High-strength bolting
7. [ ] Structural masonry
8. [ ] Reinforced gypsum concrete
9. [ ] Insulating concrete fill
10. [ ] Sprayed-on fireproofing
11. [ ] Piling, drilled piers and caissons
12. ■ Shotcrete (when used)
13. ■ Special grading, excavation and filling (Geo. Engineered)
14. [ ] Smoke-control system
15. [ ] Demolition
16. [ ] Exterior facing
17. **Retrofit of unreinforced masonry buildings:** [ ] Testing of mortar quality and shear tests [ ] Inspection of reporting operations [ ] Installation inspection of new shear bolts [ ] Pre-installation inspection for embedded bolts [ ] Pull/torque tests per SFBC Sec.1607C & 1615C.
18. **Bolts installed in existing concrete or masonry:** [ ] Concrete [ ] Masonry [ ] Pull/torque tests per SFBC Sec.1607C,1615C
19. [ ] Shear walls and floor systems used as shear diaphragms
20. [ ] Holdowns
21. **Special cases:** [ ] Shoring [ ] Underpinning: [ ] Not affecting adjacent property [ ] Affecting adjacent property: PA _____
22. [ ] Others: [ ] Crane safety (Apply to the operation of tower cranes on highrise building) (Section 1704.20)
23. [ ] Others: "As recommended by professional of record" _____

24. Structural observation per Sec. 1710 (2010 SFBC) for the following: ■ Foundations [ ] Steel framing ■ Concrete construction [ ] Masonry construction [ ] Wood framing [ ] Other: _____

25. Certification is required for: [ ] Glu-lam components

Prepared by: Structural Design Engineers Phone: (415) 781-1505 x 204
Engineer of Record Rajendra Sahai

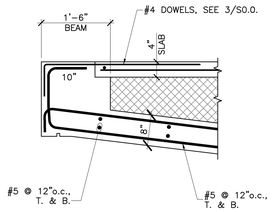
Required information:
Fax: 415 -781-2718 Email: rsahai@sdesf.com

Review by: _____ Phone: (415) 558-
DBI Engineer or Plan Checker

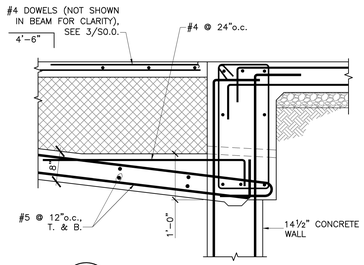
APPROVAL (Based on submitted reports.)

_____ _____
DATE DBI Engineer or Plan Checker / Special Inspection Services Staff

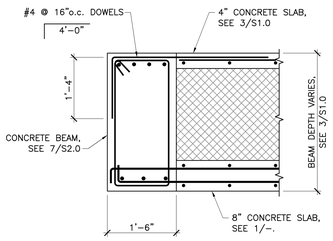
QUESTIONS ABOUT SPECIAL INSPECTION AND STRUCTURAL OBSERVATION SHOULD BE DIRECTED TO:
Special Inspection Services (415) 558-6132; or, dbi.specialinspections@sfgov.org ; or FAX (415) 558-6474



1 S0.0 SECTION
SCALE: 3/4"=1'-0"



2 S0.0 SECTION
SCALE: 3/4"=1'-0"



3 S0.0 SECTION
SCALE: 3/4"=1'-0"

SHOTCRETE NOTES (IF USED)

1. FORM ONE SIDE OF WALL AND WALL ENDS, CORNERS, OPENINGS, ETC. TO PROVIDE SOUND BACKING FOR SHOTCRETE. PROVIDE GUIDES TO ENSURE ACCURATE THICKNESS AND ALIGNMENT OF ALL SECTIONS. PROVIDE 1/2" CHAMFERS AT INSIDE CORNERS OF FORMS, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS. CLEAN FORM SURFACES TO REMOVE PAINT, OIL, GREASE, AND OTHER CONTAMINANTS. BEFORE APPLYING SHOTCRETE, WET FORMS UNTIL DAMP BUT WITHOUT VISIBLE FREE WATER.
2. TYPICAL CLEAR SPACING BETWEEN PARALLEL BARS SHALL BE 2 ½" MINIMUM FOR #5 AND SMALLER BARS AND 6 TIMES THE BAR DIAMETER FOR LARGER BARS. ANY BAR LAYOUT WITH CLEARANCES LESS THAN THESE MINIMUMS WILL REQUIRE PRECONSTRUCTION TEST PANELS.
3. LAP SPLICES SHALL BE BY THE NON-CONTACT LAP SPLICE METHOD WITH 2" CLEARANCE BETWEEN THE BARS TO BE SPLICED. MECHANICAL COUPLERS ARE REQUIRED IN LIEU OF LAP SPLICES FOR ALL BARS SPACED AT LESS THAN 6" ON CENTER. COUPLERS SHALL COMPLY WITH ACI 318-95, SECTION 12.14.3.2, AND SHALL BE STAGGERED 24" MINIMUM.
4. SPECIAL INSPECTION AND STRENGTH TESTING IS REQUIRED FOR ALL SHOTCRETE WORK. SEE SPECIFICATIONS. THE OWNER'S TESTING & INSPECTION AGENCY SHALL PERFORM THE FOLLOWING:
   a. MATERIAL AND PROCEDURE EVALUATIONS.
   b. REVIEW SHOTCRETE MIX DESIGNS.
   c. PERFORM FULL TIME INSPECTION OF EACH SHOTCRETE CREW DURING ALL SHOTCRETE OPERATIONS.
   d. PERFORM INSPECTION OF CORING, CUTTING, AND SAMPLING OF PRECONSTRUCTION TEST PANELS.
   e. OBTAIN AND TEST THE STRENGTH EVALUATION SAMPLES AND THE VISUAL EXAMINATION SAMPLES.
5. PRECONSTRUCTION TEST PANELS ARE REQUIRED. COMPLY WITH REQUIREMENTS OF ACI 506.2 AND AS SPECIFIED.
   a. MAKE TEST PANELS FOR EACH MIX BEING CONSIDERED, FOR EACH SHOOTING POSITION TO BE ENCOUNTERED IN THE PROJECT, AND FOR EACH CREW PERFORMING SHOTCRETE APPLICATION WORK.
   b. TEST PANELS SHALL BE SHOT, CURED, CORED OR SAWN, EXAMINED, AND TESTED PRIOR TO COMMENCEMENT OF THE PROJECT.
   c. THE SAMPLE PANEL SHALL BE REPRESENTATIVE OF THE PROJECT AND SIMULATE JOB CONDITIONS AS CLOSELY AS POSSIBLE. THE PANEL THICKNESS AND REBAR SHALL REPRODUCE THE THICKEST AND MOST CONGESTED AREAS OF THE SPECIFIED WORK.
   d. TEST PANELS SHALL BE SHOT AT THE SAME ANGLE, USING THE SAME NOZZLEMEN, AND WITH THE SAME CONCRETE MIX DESIGN THAT WILL BE USED ON THE PROJECT. THE EQUIPMENT USED IN PRECONSTRUCTION TESTING SHALL BE THE SAME EQUIPMENT USED IN THE WORK REQUIRING SUCH TESTING, UNLESS SUBSTITUTE EQUIPMENT IS APPROVED BY THE STRUCTURAL ENGINEER IN ADVANCE.
   e. THE OWNER'S TESTING AGENCY SHALL TAKE A MINIMUM OF FIVE 3-INCH DIAMETER CORE SPECIMENS FROM THE TEST PANELS FOR EVALUATION BY THE TESTING AGENCY AND THE STRUCTURAL ENGINEER. ADDITIONAL SAMPLING AND/OR CUTTING MAY BE REQUIRED BY THE STRUCTURAL ENGINEER.
   f. ADDITIONAL CORES MAY BE TAKEN FROM THE TEST PANEL TO EVALUATE THE CONCRETE STRENGTH AND TO ESTABLISH A STRENGTH HISTORY FOR THE PROPOSED MIX DESIGN. SEE BELOW FOR STRENGTH TESTING.
   g. ACCEPTANCE OF TEST SPECIMENS IS AT THE SOLE DISCRETION OF THE STRUCTURAL ENGINEER.
6. STRENGTH EVALUATION SAMPLES
   a. STRENGTH TESTS FOR SHOTCRETE SHALL BE MADE IN ACCORDANCE WITH ASTM STANDARDS BY THE OWNER'S TESTING & INSPECTION AGENCY ON SPECIMENS WHICH ARE REPRESENTATIVE OF WORK AND WHICH HAVE BEEN WATER SOAKED FOR AT LEAST 24 HOURS PRIOR TO TESTING.
   b. WHEN THE MAXIMUM SIZE AGGREGATE IS LARGER THAN 3/8 INCH, SPECIMENS SHALL CONSIST OF NOT LESS THAN THREE 2-INCH DIAMETER CORES OR 3-INCH CUBES.
   c. WHEN THE MAXIMUM SIZE AGGREGATE IS 3/8 INCH OR SMALLER, SPECIMENS SHALL CONSIST OF NOT LESS THAN THREE 2-INCH DIAMETER CORES OR 2-INCH CUBES.
   d. SPECIMENS SHALL BE TAKEN FROM STRENGTH TEST PANELS, MADE NOT LESS THAN ONCE EACH SHIFT AND NOT LESS THAN ONE FOR EACH 50 CUBIC YARDS OF SHOTCRETE PLACED.
      i. WHEN THE MAXIMUM SIZE AGGREGATE IS LARGER THAN 3/8 INCH, THE TEST PANELS SHALL HAVE A MINIMUM DIMENSION OF 18 INCHES BY 18 INCHES.
      ii. WHEN THE MAXIMUM SIZE AGGREGATE IS 3/8 INCH OR SMALLER, THE TEST PANELS SHALL HAVE A MINIMUM DIMENSION OF 12 INCHES BY 12 INCHES.
      iii. PANELS SHALL BE GUNNED IN THE SAME POSITION AS THE WORK, DURING THE COURSE OF THE WORK, AND BY THE SAME NOZZLEMEN DOING THE WORK. THE CONDITION UNDER WHICH THE PANELS ARE CURED SHALL BE THE SAME AS THE WORK.
   e. STRENGTH EVALUATION ACCEPTABILITY CRITERIA SHALL BE PER CBC SECTION 1913.10.3.
7. ALL DEFECTIVE CONCRETE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT WITH NO ADDITIONAL EXPENSE TO THE OWNER, UNLESS IT IS DETERMINED BY THE STRUCTURAL ENGINEER OR ARCHITECT THAT IT CAN BE SATISFACTORILY REPAIRED BY THE CONTRACTOR WITH NO ADDITIONAL EXPENSE TO THE OWNER.

Permitted by DBI Aug. 2013.
Sheets included for Reference Only.

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:

REGISTERED PROFESSIONAL ENGINEER RAJENDRA S.MAI No. S2091 Exp. 9-30-15 STRUCTURAL STATE OF CALIFORNIA

Structural Design Engineers
100 Montgomery Street, Suite 1150
San Francisco, California 94104-4303
415 / 781-1505 • Fax 415 / 781-2718

HPS Development Co.
One California Street, Suite 2700
San Francisco, CA 94111

HUNTERS POINT OPEN SPACE

HILLPOINT PARK OVERLOOK

No:	Issue	Date:
1	100% CD'S	3.07.12
2	PERMIT SUBMITTAL	3.19.13
3	PLAN CHECK SUBMITTAL	5.28.13
4	BID SET	3.07.14
5	PERMIT SET	5.23.14
6		

No:	Revision	Date:
△		
△		
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△		
△		
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Description:
100% CD

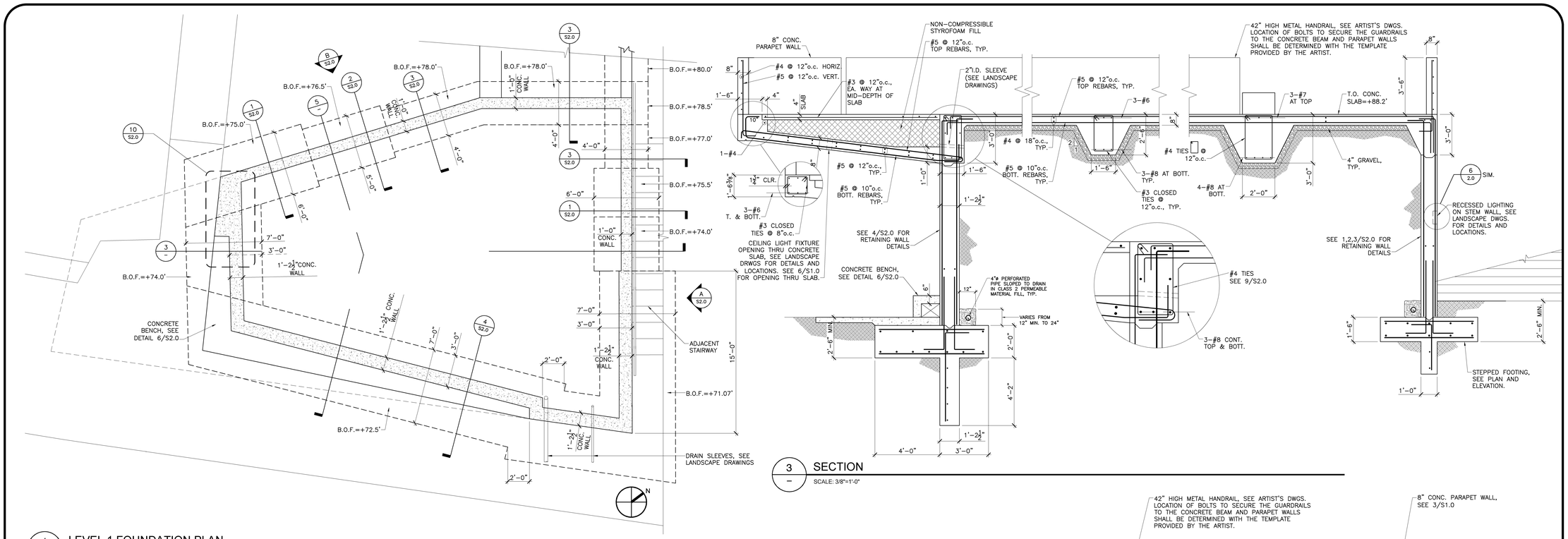
Job No: SDE 08071
Date: 23 MAY 2014

UNDER SEPARATE PERMIT.
FOR REFERENCE ONLY.

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Sheet Title:
SPECIAL INSPECTION FORM, SECTIONS.

Sheet No:
S0.0



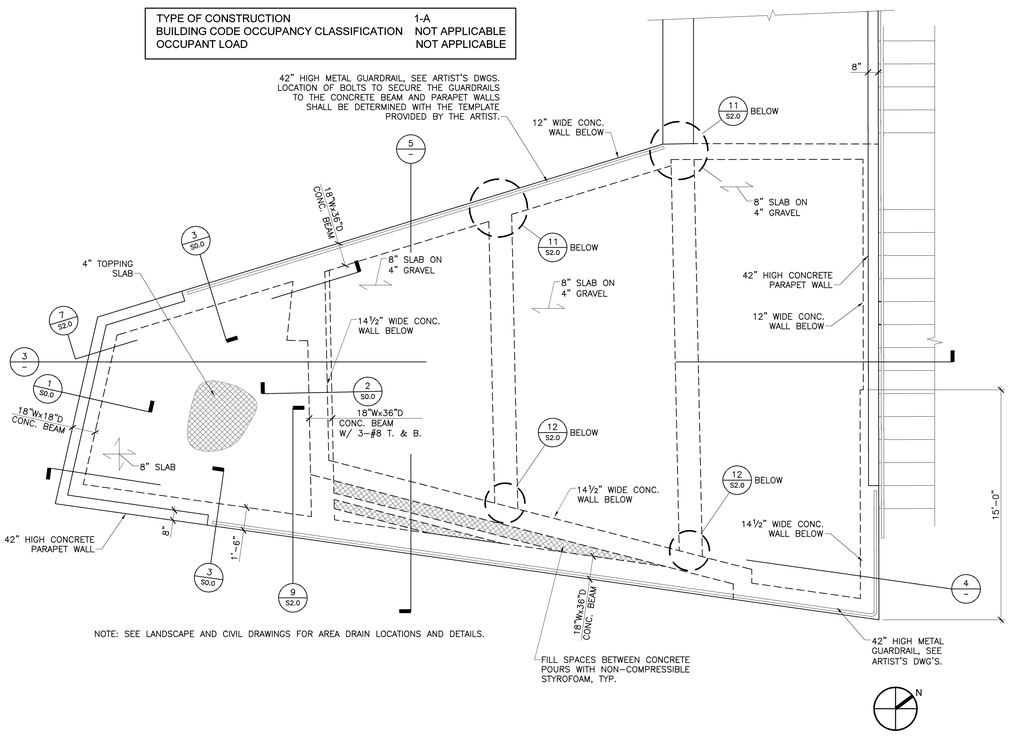
1 / – LEVEL 1 FOUNDATION PLAN

SCALE: 1/4"=1'-0"

3 / – SECTION

SCALE: 3/8"=1'-0"

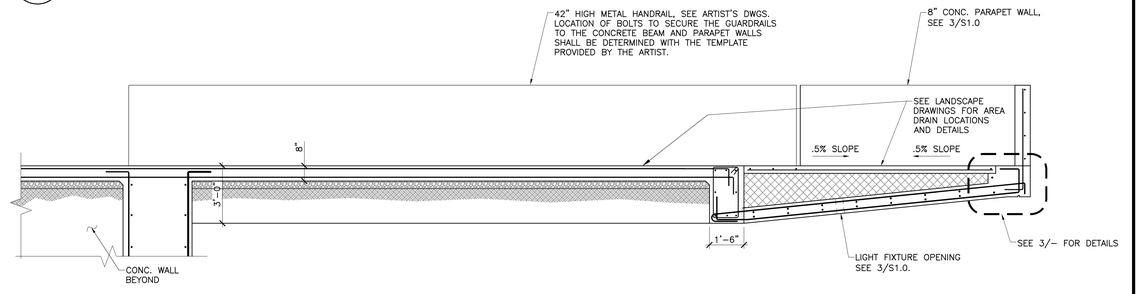
TYPE OF CONSTRUCTION	1-A
BUILDING CODE OCCUPANCY CLASSIFICATION	NOT APPLICABLE
OCCUPANT LOAD	NOT APPLICABLE



NOTE: SEE LANDSCAPE AND CIVIL DRAWINGS FOR AREA DRAIN LOCATIONS AND DETAILS.

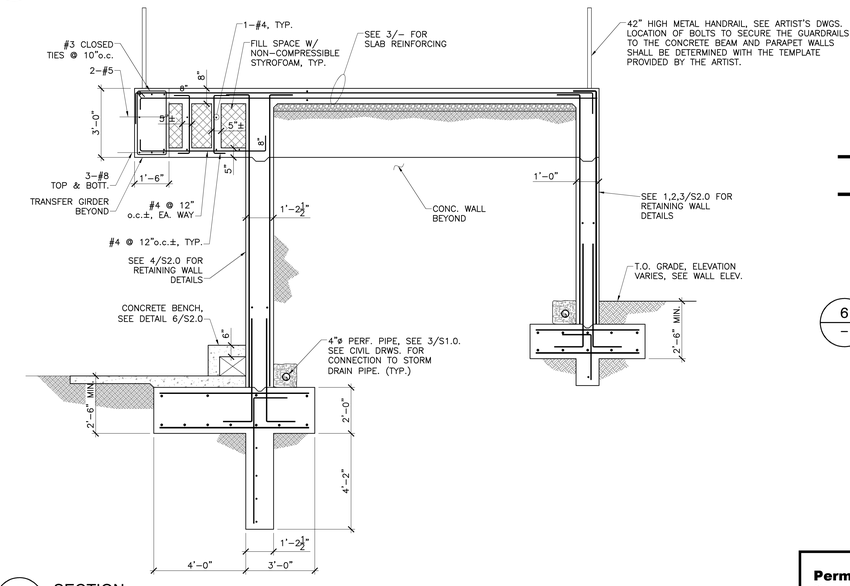
2 / – LEVEL 2 FRAMING PLAN

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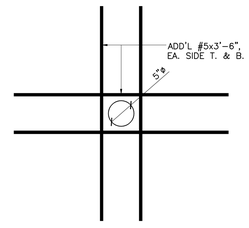
4 / – SECTION

SCALE: 3/8"=1'-0"



5 / – SECTION

SCALE: 3/8"=1'-0"



6 / – DETAIL

SCALE: 1"=1'-0"

Permitted by DBI Aug. 2013.
Sheets included for Reference Only.

CMG
CONGER MOSS GUILLARD
500 THIRD STREET SUITE 215
SAN FRANCISCO, CA 94107
TELEPHONE: 415/495-3070
FACSIMILE: 415/495-3080

Stamp:
REGISTERED PROFESSIONAL ENGINEER RAJENDRA SARAF No. S2091 Exp. 9-30-15 STRUCTURAL STATE OF CALIFORNIA

Structural Design Engineers
100 Montgomery Street, Suite 1150
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HUNTERS POINT OPEN SPACE

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No:	Revision	Date:

Description: 100% CD

Job No: SDE 08071

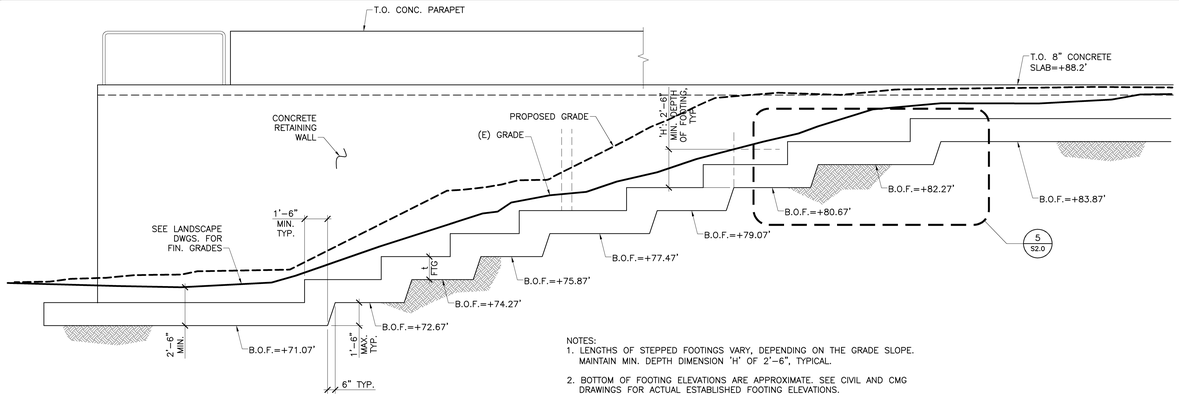
Date: 23 MAY 2014

UNDER SEPARATE PERMIT. FOR REFERENCE ONLY.

Sheet Title:

STRUCTURAL PLANS & DETAIL

Sheet No: **S1.0**

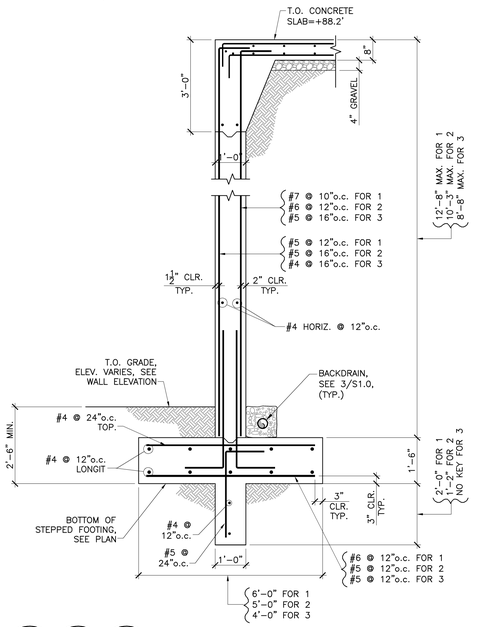


NOTES:
1. LENGTHS OF STEPPED FOOTINGS VARY, DEPENDING ON THE GRADE SLOPE. MAINTAIN MIN. DEPTH DIMENSION 'H' OF 2'-6", TYPICAL.
2. BOTTOM OF FOOTING ELEVATIONS ARE APPROXIMATE. SEE CIVIL AND CMG DRAWINGS FOR ACTUAL ESTABLISHED FOOTING ELEVATIONS.

A S2.0 STEPPED FOOTING ELEVATION

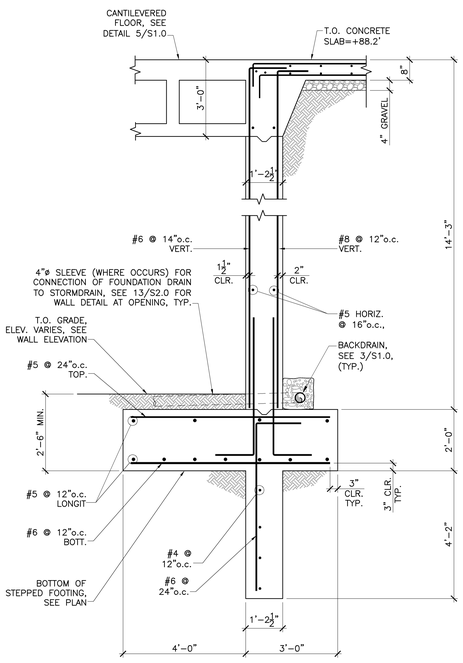
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(FOR REFERENCE ONLY: SEE DETAIL 5/S2.0 FOR TYP. STEPPED FOOTING)



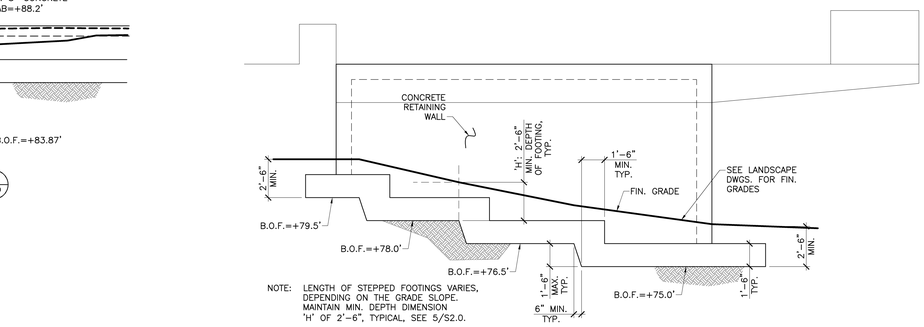
1 S2.0 2 S2.0 3 S2.0 SECTION

SCALE: 1/2"=1'-0"



4 S2.0 SECTION

SCALE: 1/2"=1'-0"

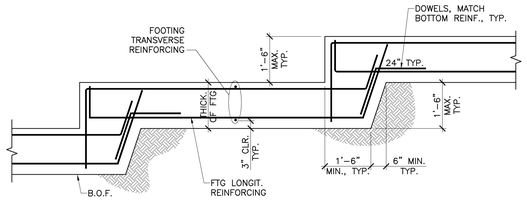


NOTE: LENGTH OF STEPPED FOOTINGS VARIES, DEPENDING ON THE GRADE SLOPE. MAINTAIN MIN. DEPTH DIMENSION 'H' OF 2'-6", TYPICAL, SEE 5/S2.0.

B S2.0 STEPPED FOOTING ELEVATION

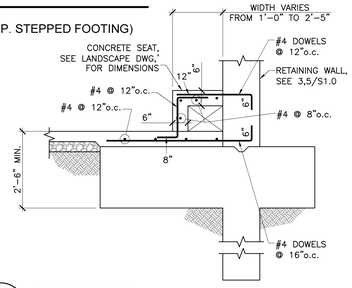
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(FOR REFERENCE ONLY: SEE DETAIL 5/S2.0 FOR TYP. STEPPED FOOTING)



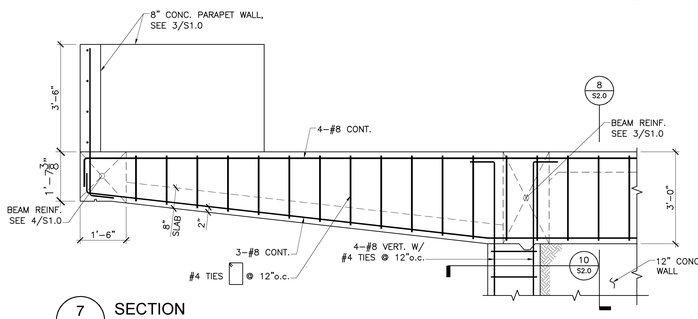
5 S2.0 TYPICAL REINF. PLACEMENT DETAIL AT STEPPED FOOTING

SCALE: 1/2"=1'-0"



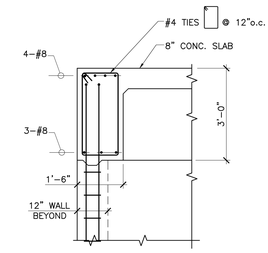
6 S2.0 SEAT DETAIL

SCALE: 1/2"=1'-0"



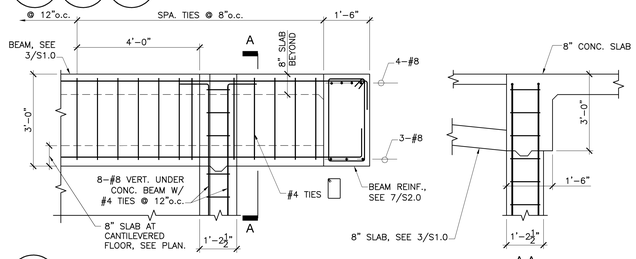
7 S2.0 SECTION

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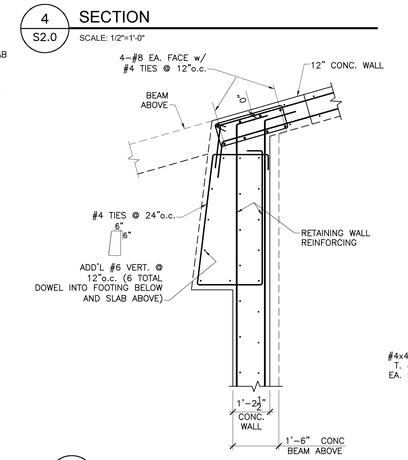
8 S2.0 SECTION

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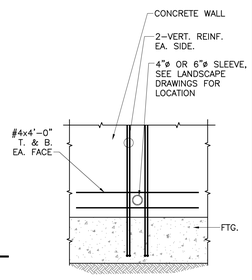
9 S2.0 SECTION

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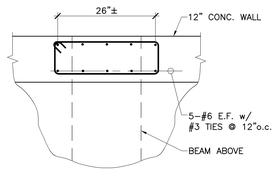
10 S2.0 SECTION

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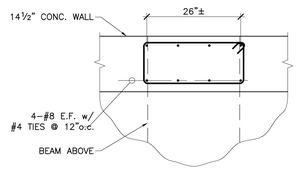
13 S2.0 SECTION

SCALE: 1/2"=1'-0"



11 S2.0 SECTION

SCALE: 3/4"=1'-0"



12 S2.0 SECTION

SCALE: 3/4"=1'-0"

STRUCTURAL NOTES

1. DESIGN CONFORMS TO THE SAN FRANCISCO BUILDING CODE (SFBC), 2010 EDITION, IN CONJUNCTION WITH THE CALIFORNIA BUILDING CODE (CBC), 2010.

   SEISMIC PARAMETERS:

SITE CLASS	D
.2 SEC MAPPED SPECTRAL RESPONSE ACCELERATION, Ss	1.5
1 SEC MAPPED SPECTRAL RESPONSE ACCELERATION, S1	0.653
SITE COEFFICIENT, Fa	1.0
SITE COEFFICIENT, Fv	1.5
MAX SPECTRAL RESPONSE ACCELERATIONS FOR SHORT PERIODS, SMS	1.50
MAX SPECTRAL RESPONSE ACCELERATIONS FOR 1-SEC PERIODS, SM1	0.979
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS, SDS	1.0
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SEC PERIODS, SD1	.653

2. NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN PROVIDE DETAILS OF A SIMILAR NATURE. VERIFY APPLICABILITY WITH THE LANDSCAPE ARCHITECT IF NEEDED.
3. COMPARE STRUCTURAL DRAWINGS WITH THE VARIOUS OTHER DRAWINGS AND SPECIFICATIONS BEFORE COMMENCING THE WORK. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES AND DO NOT PROCEED WITH AFFECTED WORK UNTIL THEY ARE RESOLVED.
4. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR INSERTS, SLEEVES, REVEALS, BLOCKOUTS AND OTHER CONDITIONS.
5. SEE LANDSCAPE, ARCHITECTURAL AND CIVIL DRAWINGS FOR DRAINAGE DETAILS.
6. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE ARCHITECT'S (OR ENGINEER'S) PRESENCE OR REVIEW OF THE WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S METHODS OR MEASURES.
7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE MOVEMENT/SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL SHORING, BRACING, AND SOIL RETENTION SYSTEMS NEEDED TO BRING THE PROJECT TO ITS PERMANENT (AS DESIGNED) CONDITION.
8. THE CONTRACTOR'S TEMPORARY MEASURES SHALL BE ARRANGED OR DESIGNED SO AS TO NOT ALTER OR AFFECT THE PERMANENT STRUCTURE.
9. FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, ENGEO, INC., AS PROVIDED IN THE FOLLOWING DOCUMENTS: "OPEN SPACE IMPROVEMENTS, HILLPOINT PARK, HUNTERS POINT, SAN FRANCISCO, CALIFORNIA", DATED JANUARY 19, 2009.
10. DESIGN MAXIMUM SOIL BEARING PRESSURES FOR FOOTINGS: FOOTING FOUNDATION SYSTEM: DL + LL = 2500 PSF
11. CONCRETE SHALL BE READY MIXED CONFORMING TO ASTM C94, HAVING THE FOLLOWING MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTHS AND UNIT WEIGHTS:
    - SLAB ON GRADE . . . . . 4000 PSI, 145 PCF
    - FOUNDATIONS, GRADE BEAMS . . . . . 4000 PSI, 145 PCF
    - STRUCTURAL SLABS, WALLS, COLUMNS AND BEAMS . . . . . 4000 PSI, 145 PCF
    - SIDEWALK, CURBS, BACKFILL CONCRETE, EQUIPMENT PADS . .2500 PSI, 145 PCF
    - TOPPING SLAB . . . . . 3000 PSI, 145 PCF
    - ALL OTHER CONCRETE . . . . . 3000 PSI, 145 PCF
12. SLUMP SHALL BE THE MINIMUM CONSISTENT WITH PROPER PLACING, IN GENERAL:
    - FOUNDATIONS, SLAB ON GRADE, GRADE BEAMS . . 3-1/2" TO 4-1/2"
    - STRUCTURAL SLABS . . . . . 2-1/2" TO 3-1/2"
    - WALLS, COLUMNS . . . . . 3-1/2" TO 4-1/2"
13. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE WITHOUT THE ARCHITECT'S PRIOR REVIEW AND WRITTEN APPROVAL.
14. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60.
15. UNLESS OTHERWISE NOTED, MAINTAIN COVERAGE TO FACE OF BARS AS FOLLOWS.
    a. CONCRETE CAST AGAINST EARTH. . . . . 3"
    b. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
       NO. 5 AND SMALLER, WIRE MESH . . . . . 1-1/2"
       ALL OTHER BARS . . . . . 2"
    c. SUSPENDED SLABS, INTERIOR WALL SURFACES
       NO. 11 AND SMALLER . . . . . 3/4"
16. UNLESS OTHERWISE INDICATED, SPECIAL INSPECTION SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING AND INSPECTION AGENCY OR GEOTECHNICAL ENGINEER OF RECORD, AS APPLICABLE, DESIGNATED BY THE OWNER. COPIES OF THE TESTING AND INSPECTION REPORT SHALL BE SENT TO THE BUILDING DEPARTMENT, ARCHITECT, STRUCTURAL ENGINEER AND OWNER.
17. CONTRACTOR SHALL SUBMIT TO THE ENGINEER, PRIOR TO BEGINNING CONSTRUCTION, A DETAILED LIST OF "SPECIAL INSPECTION" ITEMS INDICATING THE SCOPE OF TESTING AND INSPECTION AND THE AGENCY OR ENGINEER PERFORMING THE WORK.
18. SHOTCRETE, IF USED, SEE NOTES ON SHEET S0.0.

Permitted by DBI Aug. 2013.
Sheets included for Reference Only.

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HUNTERS POINT OPEN SPACE

HILLPOINT PARK OVERLOOK

No:	Issue	Date:
1	100% CD'S	3.07.12
2	PERMIT SUBMITTAL	3.19.13
3	PLAN CHECK SUBMITTAL	5.28.13
4	BID SET	3.07.14
5	PERMIT SET	5.23.14
6		

No:	Revision	Date:
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Description: 100% CD

Job No: SDE 08071

Date: 23 MAY 2014

UNDER SEPARATE PERMIT. FOR REFERENCE ONLY.

Sheet Title:

ELEVATIONS & SECTIONS

Sheet No: **S2.0**